CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, December 19, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(* *denotes that this work is advertised in Engineering News.*)

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RAILWAYS.

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ABERDEEN & TOMBIGBEE VALLEY.—H. E. Reynolds, Pres., Aberdeen, Miss., states that this railway company, which is a successor of the Columbus, Memphis & Pensacola R. R. Co., will build a 65-mile line to connect Okolona, Aberdeen, Pickensville and Columbus, Miss. W. T. McKell is Engr.-in-Charge. Date for receiving bids for construction not yet decided. It is proposed to issue $750,000 of bonds. Noted on Nov. 28 and Oct. 24.

ASHLAND & WESTERN.—Negotiations are reported to have been completed to consolidate this railway with the Industrial Railroad of Lorain and the Lorain & Ashland Ry.. It is proposed to begin some extensions of line and improvements in terminal facilities early next year. Z. W. Davis is Pres., Canton, Ohio.

BALLINGER & ABILENE.—We are officially advised that about 80% of the right-of-way has been secured for this railway. Surveys are made. Capital for construction has not yet been obtained. C. A. Doose is Pres. and W. J. McDaniel is Ch. Engr., Ballinger, Tex. Noted fully on Nov. 14.

BUFFALO, ROCHESTER & EASTERN.—Notice is given by the Public Service Commission for the Second District that it will grant a hearing at its headquarters in the State Capitol in Albany, on Jan. 6, at 2 p. m., on the application of the Buffalo, Rochester & Eastern R. R. Co., for permission to build a road from Buffalo to Troy. It is stated in the application that in Genessee county the line will pass through Alabama, touching the villages of Alabama, Wheatville and the Tonawanda Indian village, and through the town of Oakfield, then passing into Barre. R. D. Gillett is Pres., Westfield, Mass. Noted on Nov. 14.

CANADIAN PACIFIC.—This company, as lessee of the franchises of the Montreal & Lake Maskinonge Ry. Co., has applied to the Board of Railway Commissioners for authority to construct two short branch lines near St. Gabriel de Brandon, Que.

CAPE BRETON.—George E. Johnson, Gen. Mgr., St. Peters, N. S., states that this company proposes to extend from St. Peters to Louisburg, N. S., 31 miles. Work will probably commence early in 1908. This railway now runs from St. Peters to Point Tupper, 31 miles.

CHICAGO, BURLINGTON & QUINCY.—The stockholders of the Big Horn R. R., a branch of the Burlington, have authorized the extension of the road from Frannie, Wyo., to Fromberg, Mont. This link will mean a more direct connection between the Northern Pacific and the newly opened coal mines in the Big Horn basin.

GRAND TRUNK.—This company has made application to the Board of Railway Commissioners for permission to build a cut-off from the end of Victoria Bridge, Montreal, Que., to Brosseau Junction, skirting the town of St. Lambert on the north and west sides. F. L. Bond is Res. Engr.

GRAND TRUNK PACIFIC.—The following report of construction on this line has been made: East of Winnipeg, 850 miles are under construction and an estimate of the construction between Winnipeg and Edmonton shows the work will cost $18,400,000. From Edmonton to the Pacific Coast the work is expected to cost $50,700,000 and from Winnipeg to Moncton $41,946,288. The distance from Winnipeg to Moncton is 1,804 miles; from Winnipeg to Edmonton, 800 miles, and 960 miles from Edmonton to Prince Rupert. Noted last week.

GUTHRIE, FAIRVIEW & WESTERN.—This company, which was chartered in 1904, to build from Guthrie to Fairview, Okla., and which had graded a portion of the line is reported to have been sold to the Atchison, Topeka & Santa Fe Ry. Co.

IDAHO & WASHINGTON NORTHERN.—To secure funds for construction and equipment of its line from Spirit Lake, where a model town is being built, to Newport, thence down the Pend d'Oreille River, in Stevens County, Wash., north of Spokane, the Idaho & Washington Northern R. R. Co., promoted by F. A. Blackwell, Chn. of the Board of the Spokane & Inland Empire system, has executed a mortgage for $5,000,000 to the Illinois Trust and Savings Company. It is signed by F. A. Blackwell, Pres., and J. T. McDevitt, Secy. of the railway company and by John J. Mitchell, Pres. and William H. Hinkle, Secy., for the trust company. It is given to secure a series of bonds issued in denominations of $1,000 each up to $5,000,000, to bear interest at 5%, payable semi-annually. L. F. McCoy is Ch. Engr., Coeur d'Alene, Idaho. Noted on Sept. 26.

INTERCOLONAL.—A branch line is to be built from the main line of the I. C. R. to the prospective iron mine, leased by T. M. Burns, M. P. P., to the Drummond Mining Co. Two routes are available. One is eleven miles in length, but crosses the Nepisguit River, and its use would entail the construction of a bridge. The other route is four miles longer, but does not cross the river.

A meeting will be held at Sydney, C. B., on Jan. 15, to consider the plans of railway extension in Cape Breton County, particularly the extension of the I. C. R. from Sydney to Louisburg, and the building of the Cape Breton Railway from St. Peters to Louisburg, with running rights over the proposed I. C. R. extension to Sydney.

INTERSTATE TRANSFER RY.—We are officially advised that work of constructing this 14-mile belt line at head of Great Lakes has proceeded to the point of making the final location, filing the maps, obtaining the certificates of necessity from the Railroad Commission in the State of Wisconsin and the institution of condemnation proceedings for right-of-way for the first division from St. Louis River to Saunders Station. Plans are being prepared for the drawbridge that is to be built across St. Louis River and that part of the railway between the plant of the Minnesota Steel Co. and the Northern Pacific tracks has been graded, bridges constructed and track-laying has been commenced.

KANSAS SOUTHERN & GULF.—O. J. Collman, Gen. Mgr., Westmoreland, Kan., states that an extension will be built. This line now runs from Blaine through Moodyville Springs to Westmoreland, Kan. The first section of the proposed extension will run from Westmoreland through Flush to Manhattan, a distance of 22 miles, when connection will be made with the main line of the Union Pacific, the Blue Valley Line to Lincoln, Neb., and the main line of the Chicago, Rock Island & Pacific from Kansas City to Denver. From Manhattan the route is in a southwesterly direction to Wichita and Oklahoma, while northward from Westmoreland the road will be extended to Sabetha, Sycamore Springs, Kan., and Falls City, Neb.

LITTLE ROCK, MAUMELLE & WESTERN.—This company which now operates eight miles of railroad from Little Rock, Ark., to Maud Junction, contemplates building an extension of seven miles. A. J. Netmeyer, 1204 Lumbermans Bldg., St. Louis, Mo., is Pres.

MADISONVILLE, HARTFORD & EASTERN.—George M. Feagin, Hartford, Ky., states that this line is 85⅝ graded between Madisonville and Mitchell, Ky., 55½ miles. Tracklaying probably will begin early in 1908.

MISSOURI PACIFIC.—Company may soon commence the entire reconstruction of the Omaha Belt Line R. R., from Walnut Hill to 24th St., Omaha, Neb., as well as the entire line to South Omaha, a distance of eight miles. The Omaha "News," states that this company "will practically reconstruct its entire Nebraska system, the work already being in progress. About 85 miles will be rebuilt, over $1,000,000 spent and the main line put in condition for a 5-hour train service to Kansas City, instead of the 8-hour service at present maintained. Beginning at Gilmore Junction, near Omaha, the roadbed has been rebuilt for many miles south, at a cost of $90,000. Altogether $113,000 will be spent in this part of the work. The trackage will be completely retaid, 85-lb. rails replacing the present 63 and 56-lb. rails. The cost of the new rails will amount to $423,000. The track to be renewed is as follows: From Falls City to Nebraska City Junction, 21 miles; from Nebraska City Junction to Nebraska City, 20 miles; and from Nebraska City to Fort Crook, 44 miles. The line from Union to Lincoln will also be improved at a cost of $13,000. This is 44 miles long.

"The work is under direction of Frederick H. Van Craenenbroeck, Div. Engr., in charge of the line north from Kansas City, with offices in Omaha.

"In addition to the present reconstruction efforts, the Missouri Pacific will appropriate nearly $500,000 for maintenance expense on the Nebraska lines during the coming year."

NEW YORK, PITTSBURG & CHICAGO.—The directors of this company at a recent meeting at Pittsburg, Pa., elected Joseph Ramsey, Jr., president. The plan for financing the project was approved and a resurvey of the route from Pittsburg to Sunbury, on the Susquehanna River, was authorized. Mr. Ramsey has announced that the financing of the project was complete, and that the details will be announced soon.

NORFOLK & SOUTHERN.—Construction work on this road was suspended on November 1, and it is officially stated that nothing further will be done for some time.

NORTH & SOUTH.—Surveys are in progress and construction will probably begin in the spring on this proposed road from Portsmouth, Ohio, to a point in Kentucky, a distance of 180 miles. T. J. Kirkpatrick and L. E. Niles of Springfield, Ohio, are among the promoters.

OKLAHOMA, COLORADO & PACIFIC.—It is officially announced that this company, which proposes to build from Oklahoma City to Trinidad, Colo., about 650 miles, will not begin construction until financial conditions are normal. The directors are: George Silsby of Saginaw, Mich., and Oklahoma City, Pres.; H. P. Ladd, Vice-Pres., Oklahoma City; Edgar Turner, Treas, Turney, Okla.; Herbert Huston; L. E. Patterson, of Oklahoma City, is Secy.

PRESCOTT, READER & FORDYCE.—W. B. Ferguson, Pres., Little Rock, Ark., states that this company proposes to build next year from Lyda to Prescott, Ark., 20 miles.

SEWELL VALLEY.—This railroad will be 21 miles long and will connect with the Chesapeake & Ohio Ry. in West Virginia. As noted on Dec. 5, this company has been incorporated to build from a point in Greenbrier County to a point in Summers County, W. Va. Headquarters are in Evenwood, W. Va.

SOUTHERN UTAH.—Tracklaying will begin soon after Jan. 1 on this proposed road from Price, Utah, to Miller Creek, 18.8 miles, it is reported. Grading, which is now in progress, is nearly completed. A. A. Sweet is Gen. Mgr., at Salt Lake City, Utah.

SPOKANE & BRITISH COLUMBIA.—Construction work may begin about March 1 on this railway. Surveys have been completed and maps approved for a line from Republic to Spokane, Wash., 145 miles. H. W. Warrington is Ch. Engr. and Supt., Grand Forks, B. C.

STEPHENVILLE, NORTH & SOUTH TEXAS.—It is planned to have this railway in operation between Stephenville and Hamilton, Tex., by Jan. 1. J. B. Gilmer is Gen. Mgr., at Stephenville.

TEMISKAMING & NORTHERN ONTARIO.—Contract for the construction of a branch through Bryce and James Townships to the Montreal River has been let to LONG & TWAIN, of Haileybury, Ont. A. & E. AKERLAND, also of Haileybury, have the contract for the construction of six miles of road from Thornloe through Cane and Barber Townships to the Montreal River, and DAVID CHAMBERS of Charlton, Ont., has the contract for building from Earlton to Outlake road, seven miles. G. A. McCarthy is Ch. Engr., North Bay, Ont.

VIRGINIA AIR LINE.—This company has graded 26 miles of the 30-mile line from Lindsay to Bremo, Va., and expects to have the road completed and in operation by May 1, 1908. Walter Washabaugh is Ch. Engr., Charlottesville, Va.

ELECTRIC RAILWAYS.

PITTSFIELD, MASS.—The Berkshire Street Railway Co. has petitioned the Board of Railroad Commissioners for an extension of time on the abolishment of the so-called Merrill grade crossing over the tracks of the North Adams branch of the Boston & Albany R. R. Under an order issued Sept. 6, 1906, the Berkshire Ry. Co. was allowed until Jan. 1, 1908, to abolish the crossing. It now petitions for an extension of two years. It is reported that the city will favor granting the extension. Alex. Shaw is Supt., Pittsfield.

DELAWARE CITY, DEL.—J. W. Endean, Pres. and Ch. Engr. of the Smyrna, Kent County & Delaware Bay Traction Co., Smyrna, Del., advises us that construction contracts probably will be let in the near future for building this proposed line. It will extend from Delaware City to Milford, Del., 68 miles. Right-of-way and capital have been secured. Surveys are under way.

WASHINGTON, D. C.—A bill has been introduced in the United States Senate to authorize the Capital Traction Co., the Washington Railway & Electric Co. and the City & Suburban Co. to extend their tracks to the new Union Station.

HENDRICKS, W. VA.—The Swathmore Lumber Co., which has built 2½ miles of standard-gage railroad connecting with the Dry Fork R. R., at Moore's Siding, proposes to build an extension from three to five miles long. P. E. Alden & Son, of Elkins, W. Va., probably will make surveys.

BURLINGTON, N. C.—Junius H. Harden, Secy. and Gen. Mgr. of the Burgrahaw Traction Co., states that this company will develop and operate a trolley line connecting Graham, Burlington and Haw River, N. C. The railway is to be seven miles long, including turnouts and passing tracks. Preliminary work is now being done. James W. Murray is Pres. and John M. Cook is Vice-Pres. The company has been chartered to furnish electric, gas or other lighting and to operate an electric railway in Burlington, Graham and Haw River. Capital, $250,000, of which $50,000 is subscribed. Noted last week.

CHARLESTON, S. C.—A joint committee, consisting of the committees on streets, railroads and ways and means, which has had under consideration the petition of the Charleston & Summerville Electric Ry. Co. for an extension of its franchise, has agreed to recommend to Council that the road be allowed six months to show that the extension should be granted, and if this is done, then the time limit be extended as prayed for in the petition. Under this condition the franchise will doubtless be extended at the end of six months. It is understood that as soon as the necessary preliminaries have been arranged the work of gradings will be resumed, about 20 miles of which have been completed. Ogden Edwards, of Summerville, is Pres.

WASHINGTON, GA.—The Washington & Elberton Construction Co. has applied for a charter. It will be incorporated for a period of 20 years with a capital stock of $75,000, for the purpose of constructing the projected railway between Washington and Elberton, Ga., and ultimately to be extended to Hartwell. The petitioners are M. M. Elkan, of Macon; J. H. Blackwell, of Elberton; W. H. Hudson, of Atlanta; V. E. Hudgens, of Duluth, and J. J. Wilkinson, W. J. Adams, J. A. Moss, C. D. Bolton and S. S. Bobo, of Washington.

COVINGTON, LA.—The St. Tammany & New Orleans Railway & Ferry Co.'s proposed line will be about 18 miles long, connecting Covington, Abita Springs and Mandeville, La. The company is doing its own construction, and all material and equipment will be purchased directly. The directors are Clay Riggs, Pres.; Lewis L. Morgan, Vice-Pres.; and Joseph Birg. Preston Herndon is Ch. Engr. Noted on Nov. 28.

MINDEN, LA.—H. A. Davis and J. B. Story have applied to the City Council for a street railway franchise for the Minden Traction Co.

SHREVEPORT, LA.—We are officially informed that S. A. Guy, of Shreveport, will build an electric railway from Shreveport to Marshall, Tex., as soon as financial conditions improve.

MEMPHIS, TENN.—H. E. Craft, Vice-Pres. of the Lake View Traction Co. and the Clarksdale, Covington & Collierville Traction Co., Randolph Bldg. Exchange, Memphis, advises us that it is proposed to build an electric line from Memphis to Clarksdale, to Covington and to Collierville, 130 miles. Surveys are made and right-of-way secured. Capital is partly obtained. R. F. Tate is Pres., Memphis. H. G. Ferree is Ch. Engr., 127 Madison St., Memphis.

DETROIT, MICH.—The Saginaw, Owosso & Lansing R. R. Co. will not award any contracts until the first of the year it is announced. Construction work will begin in a few months. The railway will be 64½ miles long and when completed it will connect Saginaw, Owosso, Laingsburg and Lansing. The company expects to operate 52 cars. The repair shops will be located in Owosso. The company is capitalized at $600,000. The officers are as follows: C. W. Baird, Pres.; Frank West, Secy.; Geo. M. Black, Treas., and J. A. Thick, Detroit, Gen. Mgr. Noted on Oct. 31.

MANISTEE, MICH.—We are officially advised that the report that the R. G. Peters Salt & Lumber Co., of Manistee, is considering the construction of an interurban electric railway between Manistee and Cadillac is a newspaper error. This was noted on Nov. 28.

GILLESPIE, ILL.—The Gillespie Electric R. R. Co. has been incorporated with a capital stock of $30,000 to construct and operate an electric railway in Macoupin County. The incorporators are J. M. Rodiner, H. T. Bycroft and R. H. Isaacs of Gillespie.

MURPHYSBORO, ILL.—The Murphysboro Electric Railway, Light, Heat & Power Co., recently organized to build an interurban railway from Murphysboro to Carbondale, has elected the following officers: P. H. Eisemeyer, Pres.; W. C. Alexander, Vice-Pres. and Mgr.; John G. Hardy, Secy.; Willard Wall, Treas., all of Murphysboro. Noted on Nov. 7.

SPRINGFIELD, ILL.—The Pekin, Peoria & Bloomington Interurban Railway Co., with principal office in Pekin, has certified to the Secretary of State the dissolution of the corporation and surrendered its charter.

EMMETSBURG, IOWA.—We are officially advised that the Sioux City & Spirit Lake Ry. Co. will not let contracts until right-of-way and capital are secured, probably not for about nine months. The line will run from Sioux City to Hartley and Spirit Lake, Iowa. Frank Patch is Pres., Hartley, Iowa. Surveys have been made. The incorporators are D. A. Fletcher, George Coleman, Frank Patch, J. F. Conn and G. E. Kusack, of Hartley. Capital stock, $50,000. Gasoline or electricity will be used for motive power.

LINCOLN, NEB.—The Commercial Club has taken up plan to build a line to Auburn and Falls City, which will be about 100 miles in length. Preparations have been made for the incorporation of a company to build this line and a committee will shortly make a trip to the towns mentioned for the purpose of ascertaining the feeling of the residents toward a direct line to Lincoln. The committee consists of George J. Woods, A. H. Armstrong, W. E. Sharp, H. M. Bushnell, Charles Mayer and C. T. Boggs. It was proposed at a recent meeting to secure $500,000 by the sale of stock for the building of the power plant in Lincoln and the construction of the line and purchase of equipment.

LITTLE ROCK, ARK.—The Little Rock & Hot Springs Electric Railway Co. proposes to build a line 56 miles long, from Little Rock to Hot Springs. Construction is to begin as soon as all of the preferred stock, amounting to $500,000 at 6 per cent., has been subscribed. L. Garrett, Little Rock, is Gen. Mgr. It is stated that over $450,000 of stock has been sold.

OKLAHOMA CITY, OKLA.—The Red River Ry. Co., recently incorporated, has decided to begin survey immediately for its proposed line from Oklahoma City to Bonham, Tex., 250 miles. George F. Robertson of Atoka, Okla., is Secy. Construction probably will begin by Jan. 1. The other officers are J. W. Hocker, of Purcell, Okla., Pres.; F. P. Kibbey, of Byars, Okla., Vice-Pres.; S. C. Hawk, of Lexington, Treas. Noted on Nov. 21.

We are officially advised that the date for letting contracts for building the Oklahoma City & Southwestern Traction Co.'s line is undetermined. Surveys have not been made yet. H. W. Curry is Pres., Eaton, Ohio; J. W. Robinson is Ch. Engr., Frederick, Okla. As noted on Nov. 14, this company has been chartered to build a line from Oklahoma City to Hollis, Okla., 190 miles, at a cost of $10,000 per mile. Capital, $2,250,000. The incorporators are H. W. Curry, of Eaton, Ohio; J. N. Street, of Bloomington, Ill.; C. A. Schwartz, J. P. Van Allen, S. W. Johnson, O. D. Reed and C. E. Richardson, all of Frederick, Okla.; Frank B. Lucas, Samuel Ecker, Jr., J. E. Woodworth and Thomas R. Cliff, all of Guthrie, Okla.

ANACORTES, WASH.—Benj. J. Weeks, Gen. Mgr. of the Skagit County Development Co., Anacortes, advises us that contracts probably will be let about April 1 for building the electric railway from Anacortes to Sedro-Woolley, 23 miles. Survey is now being made. Right-of-way is partly secured. Funds have been obtained necessary for surveying, right-of-way and terminals. E. J. Felt is Pres., Tacoma. W. S. Clark is Ch. Engr., Anacortes. Noted on Nov. 7.

COLFAX, WASH.—The Spokane & Inland Empire R. R. Co. probably will extend its line from Colfax to Walla Walla. Company now operates system of 200 miles. A. M. Lupfer is Ch. Engr. and E. E. Lillie is Supt. Inland Div., at Spokane.

FRESNO, CAL.—We are officially advised that the San Joaquin Light & Power Co. has made surveys for the proposed line from Fresno to the Yosemite Valley, via Wawona, to be about 90 miles in length. Capital has not been secured. Right-of-way is partly obtained. "This proposition is only in its first stages, but will be built as soon as possible as large lumber tracts await its building." Wm. G. Kerckhoff, Los Angeles, is Pres.; E. Newman is Ch. Engr., Los Angeles; A. G. Wishon, Fresno, is Gen Mgr.

SAN BERNARDINO, CAL.—Council has adopted an ordinance giving a franchise to C. S. Chestnut, covering streets between Redlands and San Bernardino, with right-of-way.

ONTARIO, CAL.—The Ontario Land & Improvement Co. is reported to be behind the project to build an electric line connecting Ontario, Ponoma, Chino and Newport. The Chino Land & Water Co. has been asked for a right-of-way across its lands. At Ontario, the Ontario Interurban Railway Co. is being organized with capital stock of $500,000 to carry out the project of an outlet to the sea. Charles Frankish is interested.

VANCOUVER, B. C.—It is announced that the British Columbia Electric Railway Co. has secured a charter empowering it to build an electric railway between Vancouver and the international boundary line, at or in the vicinity of Blaine. The company has also secured an option of purchase on the Lillooet River power plant, the water rights for which were secured two years ago by Hermon & Burwell, Engrs. and Surveyors, of Vancouver. The sale of the charter to the British Columbia Electric Railway Co. was made by William Farrell, S. G. Faulkner and the estate of the late Dr. Lefevre.

LONDON, ONT.—We are officially advised that A. E. WELCH, 169 Dundas St., London, Ont., has contract for building the North Midland Ry. It will be 35 miles long and will connect London with Stratford, via St. Mary's, Ballymote and Bryanston, Ont. Surveys have not been made yet. Capital for construction is partly secured. Two large bridges will be built. When bonds are sold Mr. Welch will let sub-contracts.

LIGHT AND POWER PLANTS.

AUBURN, ME.—The LIBBEY & DINGLEY CO., of Lewiston, Me., has signed a 20-year lease of the waterpower at Littlefield, on the Little Androscoggin River, near Auburn, known as the Damren & Leavitt power. A concrete dam will be built and six large wheels capable of generating 2,000 HP. will be installed. The storage will run these wheels for four to five hours. In addition to this a generator is to be put in at the power station site above Barker mill dam, where the buildings were burned about a year ago.

*FORT ANDREWS, MASS.—See under Buildings.

PEABODY, MASS.—At a special town meeting held on Dec. 2 to vote on the proposition to make an appropriation of $55,000 for reconstructing and enlarging the electric light plant the measure was lost. It was voted to lay the matter over until the next town meeting.

GLASTONBURY, CONN.—The Glastonbury Power Co. has awarded the contract for the construction of a large power plant on Roaring Brook in Cotton Hollow in South Glastnbury to F. T. LEY & CO., of Springfield, Mass. The cost of the plant is estimated at about $200,000. It will have an output of 1,300 HP. Work will commence early in the spring and is expected to be completed in the fall. Electricity will be furnished for lighting and power purposes in Glastonbury, Manchester and Rocky Hill.

FORT WOOD, N. Y.—See under Buildings.

NEW YORK, N. Y.—Bids were received on Dec. 10 by John H. O'Brien, for furnishing lamps and gas and naphtha and for maintaining lamps in public streets, parks and buildings, from Jan. 1 to Dec. 31, 1908. Also for furnishing, putting in and maintaining gas regulators from Jan. to Dec. 31, 1908; and for furnishing steam for heating or power purposes to certain public buildings, from Jan. 1, 1908, to Dec. 31, 1908, both inclusive. Contracts were awarded as follows: To the EDISON ELECTRIC LIGHT & POWER CO., and the NEW YORK EDISON CO., for electric lights in Manhattan; the WESTCHESTER LIGHTING CO., in The Bronx; the EDISON ELECTRIC ILLUMINATING CO. in Brooklyn; the QUEENS BOROUGH GAS & ELECTRIC CO. in Queens, and the RICHMOND LIGHT & R. R. CO. in Richmond. The city's lighting bill for next year will amount to between $3,500,000 and $4,000,000. Electric arc lights will cost $100 each, per year, for 5,000 arc lights of 450 kilowatts. All lamps over that number, $95. When the city has 7,500 of these arc lights the cost will be $95 each, per year. Incandescent lights will cost the same as this year, $22.50 a lamp per year. Current for public buildings for heat and other purposes will cost from 7½ to 10 cts., while power current will cost 6 cts. The only increase was in the cost of mantles for Queens Boro. No bids were received for supplying gas, but the city will pay 75 cts. per 1,000 ft., pending the decision of the courts in the suit of the city against the gas companies.

PITMAN GROVE, N. J.—Isaac Pursell, Arch., 119 South Fourth St., Philadelphia, Pa., has prepared plans for a 1-story powerhouse at Pitman for the Gloucester County Electric Co. The building will be 43.8 × 104 ft., and will be of brick and stone, with a slate roof.

PITCAIRN, PA.—The Borough Council has authorized the issue of $15,000 of electric light, street improvement and sewer bonds.

BALTIMORE, MD.—Plans are being made by the University of Maryland for a powerhouse and nurses' home to cost $25,000, it is reported.

The NOEL CONSTRUCTION CO., German and Calvert Sts., has contract for erection of proposed 3-story reinforced-concrete and brick fireproof structure to be erected inside the Pratt St. power-house for the United Railways & Electric Co. It will be 28 × 84 ft. and will cost about $30,000. L. B. Stillwell, Continental Bldg., is Engr.

WHEELING, W. VA.—The Mozart Improvement Co. has been incorporated with a capital stock of $100,000, to build and operate electric power plants. C. M. Kirschner and H. L. Hess are interested.

*MADISON, GA.—Bids are asked by E. W. Butler, Mayor, until 5 p. m., Dec. 31, for purchase of $50,000 of electric light, sewerage and water-works bonds. Bonds will bear interest at 4½%.

LEXINGTON, KY.—The Central Kentucky Natural Gas Co., of Lexington, will spend $100,000, it is stated, upon improvements which include extensions to Paris, Richmond, Versailles and other towns.

ST. AUGUSTINE, FLA.—The City Council has awarded the contract for lighting the city to the ST. JOHNS LIGHT & POWER CO. The cost of lighting for the city for the past year was $8,500; according to the new contract, the cost will be $6,500. W. M. Bostwick, Jr., is Vice-Pres.

JACKSONVILLE, FLA.—The following bids were received on Dec. 4 by the Board of Public Works for furnishing, complete, f. o. b. Jacksonville, one surface condenser, with separate circulating and vacuum pumps: Wheeler Condenser & Engine Co., of Atlanta, Ga., $12,238; C. H. Wheeler Mfg. Co., of Philadelphia, Pa., $11,495; Alberger Condenser Co., of New York City, $9,890, or condenser with ¾-in. tubes instead of 1-in. tubes for $9,540; J. G. Christopher, two bids, $10,792 and $10,000.

DADEVILLE, ALA.—An election will be held soon, it is reported, to vote on the proposition to issue $10,000 of bonds to improve the municipal electric light plant. Wilson Black is Mgr.

LECOMPTE, LA.—City has adopted plans by C. Scott Yeager, Alexandria, La., for installation of electric light plant to cost about $10,000. Baldwin Wood, New Orleans, La., has been selected as electrical engineer to supervise construction work. J. R. Moore is Mayor. Noted on Nov. 21.

NEW BREMEN, OHIO.—[illegible] asked until Dec. 30 by A. M. Steinbr[illegible] Clerk, for $20,000 of electric light [illegible] proposed to purchase the prese[illegible] plant and transfer the same to [illegible] plant. Noted on Dec. 5.

CANAL DOVER, OHIO.—A[illegible] been voted to erect a munici[illegible] issue has carried and power plant. [illegible] electric light

MARENGO, ILL.—Ripon & [illegible] a 10-year lease of the munici[illegible] plant and water-works system [illegible] control of the plant after Jan[illegible] terson is Mayor. [illegible] will take H. Patterson

WATERLOO, WIS.—Jackson[illegible] Engrs., Madison, Wis., are pr[illegible] extension to the electric light [illegible] $10,000. F. H. Rood is Mgr. [illegible] Jackson, for an to cost

DES MOINES, IOWA.—The [illegible] & Power Co. may soon begin th[illegible] of a central heating plant. [illegible] American Trust Bldg., Chicago. [illegible] Heat Schorr, Engr

OMAHA, NEB.—H. E. Bab[illegible] Jaeggi are reported interested [illegible] and F organi- to de- The ated at Osborn

RIVERTON, WYO.—A. H. [illegible] Butte, Mont., and E. T. Glenn [illegible] making an application to the to[illegible] ton for a franchise to erect and [illegible] electric light and power plant. [illegible] son, of mplate River- erate an

BILLINGS, MONT.—Special el[illegible] held on Dec. 19 to vote on p[illegible] grant a franchise to John D. L[illegible] Billings. [illegible] will be ion to kamp, of

ST. LOUIS, MO.—The Uni[illegible] Light & Power Co. has increased [illegible] from $10,000,000 to $18,000,000, [illegible] plates improvements and extensi[illegible] tem. W. V. N. Powelson is Tre[illegible] Mgr. Electric ial stock contem- to sys- and Gen.

McKINNEY, TEX.—R. F. [illegible] Secy., states that the citizens [illegible] to issue $26,000 in bonds for wat[illegible] tric light extension and park work. [illegible] voted and elec-

ANADARKO, OKLA.—The City Council contemplates issuing $75,000 of bonds, the proceeds to be used to improve and enlarge the municipal electric light plant. John Brewer is Supt.

AGUILAR, COLO.—Hawkins & Barnett, of Pueblo, are reported to have secured an electric light franchise and will immediately commence construction of a $25,000 electric light and power plant. They will furnish light and power to several coal mines adjacent to Aguilar.

NORTH BEND, WASH.—Henry Hewitt, of Tacoma, has obtained important franchises from the cities of Marshfield and North Bend securing the privilege to construct and operate an electric light plant and street railway system.

THE DALLES, ORE.—George E. Jacobs and other Portland capitalists, according to the Portland "Telegram," have purchased a water site on the Deschutes River from G. L. Rohr, who owns the property known as Rohrvilla, about seven miles from Moro. The new owners propose to develop the water power to furnish electricity for lamps and motors in the towns of Moro, Grass Valley, Wasco and The Dalles.

VALLEJO, CAL.—E. D. N. Lehe, of Dixon, owner of the electric lighting plants at Dixon, Wheatland, Rio Vista, Cordelia and towns in the Sacramento Valley, is planning to erect a transmission line throughout the Suisun Valley to supply the farmers with electricity.

BERKELEY, CAL.—C. S. Forney recently submitted a proposition to the Chamber of Commerce regarding the establishment of a new electric lighting company to furnish electricity in competition with the Berkeley Electric Light & Gas Co.

OAKLAND, CAL.—The Great Western Power Co., of Richmond, Cal., has purchased property on Brooklyn Basin, south of Fifth Ave., in East Oakland, to be used as a site for a power plant.

SOUTH SAN FRANCISCO, CAL.—The Board of Supervisors, San Mateo County, at Redwood City, has granted a franchise to W. J. Martin, Pres. of the South San Francisco Power & Light Co., to erect poles and wires for furnishing electricity for power and light purposes in South San Francisco.

LONDON, ONT.—See under Water-works-Irrigation.

WINGHAM, ONT.—The Town Council will authorize the expenditure of about $25,000 in repairs to the hydro-electric power plant here. W. J. Wyles is Mgr.

OTTAWA, ONT.—The City Engineer has been instructed to confer with C. H. Keefer, C. E., of this city, to prepare plans for developing 30,000 HP. by the construction of a dam and power house on the Ottawa River. As soon as his report is obtained a by-law will be submitted to the ratepayers.

OTTAWA, ONT.—The CANADIAN GENERAL ELECTRIC CO., of Toronto, has been awarded the contract for supplying certain lights and electrical accessories for the Ottawa street lighting system, at a cost of $24,672.

BRANTFORD, ONT.—A by-law will be submitted to the electors next month which will provide for the expenditure of $55,000 for a distribution plant for power purposes only. T. H. Jones is City Engr.

BRANDON, MAN.—The International Heating & Lighting Co., Cleveland, Ohio, will soon commence work on the construction of its gas producing plant in Brandon.

MINNEDOSA, MAN.—Joseph Barrett, 573 Dufferin St., Toronto, Ont., states that the Minnedosa Power Co. has awarded the contract for the construction of its power plant to the HYDRO-ELECTRICAL CONSTRUCTION CO., of Toronto, at about $80,000. Alexander Keith is Pres. Noted on Nov. 21.

BATTLEFORD, SASK.—W. J. BROLEY, of this city, has been awarded the contract for the erection of the proposed power house here.

LETHBRIDGE, ALTA.—A by-law has been passed providing for $30,000 for gas works. W. Robinson is Secy.-Treas.

SHERBROOKE, QUE.—F. J. Griffith, City Secy.-Treas., states that Ross & Holgate, North B. & M. Bldg., Montreal, are preparing plans for an electric light and power plant for Sherbrooke.

BRIDGES.

(Notice that this work is advertised in Engineering News.)

SYRACUSE, N. Y.—The New York Central & Hudson River R. R. Co. is about to begin work of constructing a new steel aqueduct just west of Syracuse, to take the place of the existing structure. The aqueduct is the existing structure. The aqueduct is located at the point where the company's main line intersects the Erie Canal, and is for the purpose of carrying the tracks under the canal. The work must be completed before the opening of navigation on the canal next spring and work will be begun by the company's forces at once. George W. Kittredge, New York City, is Ch. Engr.

READING, PA.—Elmer H. Beard, City Engr., has completed plans for the construction of a bridge over the Lebanon Valley R. R. tracks at Tulpehocken St. The structure is to be of concrete, with an 80-ft. span, 30 ft. wide.

OCEAN CITY, MD.—We are officially advised that the PHOENIX BRIDGE CO., 410 Walnut st., Philadelphia, Pa., has been awarded the contract for the construction of a concrete, plate girder bridge, 100 ft. long, for the Baltimore, Chesapeake & Atlantic Ry. Co. here, at $10,000. W. U. Polk, Salisbury, Md., is Supt. Ry. Div., Baltimore, Chesapeake & Atlantic Ry. Co.

WHEELING, W. VA.—Charles B. Cooke, City Engr., has prepared preliminary plans for the construction of a deck bridge, 66 ft. wide, over the creek at Market St. Estimated cost, $55,000.

SAVANNAH, GA.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of a steel highway drawbridge over the Great Ogeechee River at Kings Ferry. Bids are asked until Dec. 30.

ATTALLA, ALA.—Bids are asked until Jan. 6 by the Etowah County Commissioners for the construction of a steel bridge to replace the Rhea bridge on Wills Creek, near here. Estimated cost, between $5,000 and $10,000.

VICKSBURG, MISS.—All bids for the construction of concrete bridges on Harrison and Cherry Sts. have been rejected as excessive. Wooden bridges will be constructed.

LYNNVILLE, TENN.—A railroad bridge will shortly be erected for the Louisville & Nashville R. R. Co. across Roberson Fork Creek, south of this city, to replace the old structure. A. Snellen, Louisville, Ky., is Ins. B. & B.

TROY, OHIO.—Bids are asked until 10 a. m., Dec. 27, by E. E. Pearson, County Audr., for furnishing the material and performing the labor necessary for the construction of the superstructure of a hand-lift bridge over the Miami and Erie canal on Water St., said bridge to be a skew of 60 degrees, one roadway 20 ft. in the clear and 6-ft. walks on each side; 150 lbs. live load capacity.

CINCINNATI, OHIO.—Charles N. Danenhower, City Engr., has submitted estimates to Board of Public Service for reconstructing and repairing the Eighth St. viaduct. Cost will be about $106,000.

MUNCIE, IND.—THE INDIANA BRIDGE CO., Muncie, was awarded the contract on Dec. 4 by the County Commissioners for constructing two bridges across the Mississinewa River at $35,000. All bids for the construction of a bridge across the White River were rejected as excessive. John O. Potter is City Engr.

GREENFIELD, IND.—Bids are asked by the Commissioners of Hancock County until Dec. 24, for the construction of one 112-ft. span steel bridge with concrete abutments in Center Township; one 75-ft. span steel bridge, concrete abutments, in Brown Township, and one 12-ft. span steel and concrete bridge with concrete abutments, in Brandywine Township. Wm. I. Garriott is County Audr.

INDIANAPOLIS, IND.—Bids are asked by the Commissioners of Marion County until 10 a. m., Dec. 30, for the construction of concrete abutments and pier for bridge over Eagle Creek; for a concrete steel culvert on road in Section 21 and for a concrete steel culvert over Pfaff's branch in West Newton. C. J. Clark is County Audr.

NEWPORT, IND.—We are officially advised that the contract for the construction of the superstructure of the 4-span steel bridge across the Wabash River, near here, was awarded on Dec. 4, by the County Commissioners, to the WINAMAC BRIDGE CO., Winamac, Ind., at $27,995, with plank floor; $29,112, with concrete floor. Carl H. Conley is County Surv.

DETROIT, MICH.—The City Engineer has been directed to draw plans and prepare estimates for the construction of a new Belle Isle bridge, and also for removing present bridge to be used at a point opposite the upper end of the island. R. H. McCormick is City Engr.

GRAND RAPIDS, MICH.—Plans for the new foot bridge which the Council ordered to be placed beneath the Grand Trunk Ry. bridge in the northern part of the city are now being prepared under the direction of the Board of Public Works. Bids are asked at once. L. W. Anderson is City Engr.

CHICAGO, ILL.—Bids will soon be asked for the construction of the Orleans St. drawbridge. Thomas G. Pihlfeldt is City Bridge Engr.

HUBBLETON, WIS.—The County Board of Supervisors of Jefferson County has made an appropriation of $7,000 for the construction of a new bridge at Hubbleton, to replace the old one.

JACKSON, MINN.—We are officially advised that the JOLIET BRIDGE & IRON CO., Joliet, Ill., were awarded the contract on Dec. 10 by P. D. McKellar, County Audr., for the construction of a steel bridge, 100 ft. long and 16 ft. wide, including 50 ft. of steel approaches, at $2,195.

LITTLE FALLS, MINN.—All bids were rejected on Dec. 7 by the Town Board for the construction of a bridge across the Platte River. New bids will be asked.

TOPEKA, KAN.—The date for submitting bids for the construction of the Cross Creek bridge has been extended to Jan. 3.

OMAHA, NEB.—Seven bids were received on Dec. 3. But three of them met the requirements of the advertisement. Of these the following were the bids: C. H. Williams, bridge complete, per ft., $6.27; lumber in place, $44.50; piling in place, 52 cts. Western Bridge Co., bridge complete, per ft., $6.27; lumber in place, $44; piling in place, 55 cts. W. M. LANA, bridge complete, per ft., $5.75; complete up to 20 ft., $4.25; 20 to 24 ft., $4.28; 24 to 34 ft., $4.30; lumber in place, $38; red cedar piling, 50 cts.; oak piling, 55 cts. (awarded contract).

ST. LOUIS, MO.—Plans to bridge and tunnel the Compton Ave. tract between Cardinal and Grand Aves, have been submitted to the Municipal Bridge and Terminal Commission by the Executive Committee of the Terminal R. R. Association of St. Louis. W. S. McChesney, Jr., is Pres. Terminal R. R. Association.

PORTLAND, ORE.—We are officially advised that the following bids were opened on Nov. 29 by A. L. Barbour, City Audr., for the construction of a reinforced concrete bridge, 558 ft. long, with a 40-ft. roadway, sidewalks 10 ft. on each side, and a double track street railway, over East 28th St.: Robert Wakefield, Portland, $93,975; excavation not called for in plans, 50 cts. per cu. yd.; concrete not called for in plans, $8 per cu. yd.; Orrin Backus, A. Giebisch & F. Joplin (on plans prepared and submitted by bidders) $77,000; excavation not called for in plans, 50 cts. per cu. yd.; concrete not called for in plans (1-2-4), $12 per cu. yd.; concrete not called for in plans (1-3-6) $10 per cu. yd.; Orrin Backus, A. Giebisch & F. Joplin, (as per second set of plans), $87,000; excavation not called for in plans, 50 cts. per cu. yd.; concrete not called for in plans (1-2-4), $12 per cu. yd.; concrete not called for in plans (1-3-6), $10 per cu. yd.

SAN FRANCISCO, CAL.—The construction of a bridge across East St. is being considered by the Board of Harbor Commissioners. Estimated cost, $40,000.

CAMPBELLTON, N. B.—The new bridge over the Bonaventure River between Restigouche, N. B., and Matapedia, will be erected as soon as the government engineers can decide on a site and make the necessary arrangements. The bridge is to be 3,300 ft. long and will cost about $600,000. It is to be built to accommodate pedestrians, an electric railway, the Atlantic, Quebec & Western Ry. and the International Ry., now being constructed.

ST. JOHN, N. B.—A new bridge to replace the present suspension bridge at the mouth of the St. John River may be constructed shortly.

TORONTO, ONT.—C. H. Rust, City Engr., has reported to the Parks Department that $107,000 will be required for the construction of the proposed bridge over the tracks at Bathurst St., south of Front St., for the accommodation of the street railway line for the eastern entrance to the Exhibition. It will be necessary to purchase 13,200 ft. of land to the south of the present bridge.

HANOVER, ONT.—The Canadian Pacific Ry. Co. will soon commence the construction of a bridge across the Grand Trunk Ry. tracks here. Estimated cost, about $18,000. C. N. Monsarrat, Montreal, Que., is Engr. Bridges.

MASSEY (Massey Station post-office), ONT.—THE ALGOMA STEEL BRIDGE CO., Sault Ste Marie, Ont., has been awarded the contract for the construction of the bridge over the Spanish River.

VICTORIA, B. C.—Bids are asked until Dec. 31 by F. C. Gamble, Engr. Pub. Wks., for the steel required for the construction of a swing bridge, North Arm, Fraser River.

VANCOUVER, B. C.—A by-law for $1,000,000 for the construction of bridges across False Creek will be submitted January next. W. H. Clement is City Engr.

WINNIPEG, MAN.—The Railway Commission has passed an order for a bridge to be built over the Canadian Pacific Ry. connecting Brown and Brant Sts., Winnipeg. The bridge will be used for a public highway. R. C. Smith is Res. Engr., C. P. R., Winnipeg.

BUILDINGS.

*FORT ANDREWS, (Boston post-office), MASS.—Bids are asked until 10 a. m., Jan. 14, by Capt. Ira L. Fredendall, for construction, plumbing, heating, electric wiring and electric lighting fixtures of one brick barrack building at Fort Andrews, Peddock's Island, Boston Harbor, Mass.

WEST NEWTON, MASS.—The lowest bids for erecting the $400,000 technical high school building were as follows: Construction, C. T. Fellows, $252,546; plumbing, W. H. Mitchell & Son, 1 Province Court, Boston, $18,225; ventilating apparatus, C. H. Sanborn, $44,682.

NEW BRITAIN, CONN.—The Court of Common Council has approved the plans for remodeling the building purchased for a City Hall. Marcus H. White is Chn. of the Comn. having the matter in charge.

WAMPSVILLE, N. Y.—The Board of Supervisors of Madison County is preparing to build county building here, to cost about $150,000. It will be of fireproof construction, with steam heat, etc., and will comprise a full equipment of offices for all county purposes as well as a jail. Plans have not been adopted. The county seat is at Morrisville.

*FORT WOOD (New York post-office), N. Y.—Bids are asked until 11.30 a. m., Jan. 13, by G. C. Burnell, Constr. Q. M., for construction, including plumbing, heating, electric wiring and electric lighting fixtures, for one double set of captains' quarters at this post.

LAKE GEORGE, N. Y.—It is stated that the Delaware & Hudson Co., which owns and controls the Fort William Henry Hotel at Lake George, N. Y., has decided to make extensive improvements to the hotel. The estimated cost of the work is $75,000. L. F. Loree is Pres.

NEW ROCHELLE, N. Y.—CHARLES E. CURRIER, 10 Summer St., Boston, Mass., has the contract to erect a recruit station and officers' quarters for the Federal Government. Cost, $172,000.

UTICA, N. Y.—The Special Committee of the State Fair Commission has adopted the plans of Green & Wicks, Archs., 110 Franklin St., Buffalo, for developing the fair grounds, which include the erection of the Manufacturers and Liberal Arts building, provided for in plans. Cost of building, $200,000.

NEW YORK, N. Y.—We are officially advised that Rouse & Sloan, Archs., 11 East 42d St., have prepared plans for two 6-story apartment houses to be 100 × 100 ft. each, at Riverside Drive and 161st St. for Klein & Jackson, 49 Wall St. It is probable that the buildings will be constructed of brick, limestone and terra-cotta. Estimated cost, $400,000. Contracts will be let in the spring, when work will be started.

NEW YORK, N. Y.—A municipal office building of at least 20 stories, and costing between $7,000,000 and $9,000,000, is to be built on the old Tryon Row site, opposite the Brooklyn Bridge terminal. The ground floor and basement will be used as a bridge terminal. From the second floor up it will be used for offices, and it is planned to put all the municipal offices, with the possible exception of the Health and Police departments, into this building. The preliminary steps for the construction of the new skyscraper were taken on Dec. 16, when the Mayor announced that architects would compete in submitting plans for the building. These architects are J. Stewart Barney, 520 Fifth Ave.; Carrere & Hastings, 28 East 41st St.; Clark & Russell; J. H. Freedlander, 244 Fifth Ave.; Cass Gilbert, 11 East 24th St.; Heins & Lafarge, 30 East 21st St.; Helmle & Huberty; Hoppin & Koen, 244 Fifth Ave.; Howells & Stokes, 100 William St.; H. R. Marshall, 3 West 29th St.; McKim, Mead & White, 160 Fifth Ave.; Trowbridge & Livingston, 424 Fifth Ave., and Warren & Wetmore, 3 East 33d St. (On Dec. 17, at a meeting held by the Mayor, the name of Cass Gilbert was withdrawn from the competition.)

PRINCETON, N. J.—Parish & Schroeder, Archs., 5 West 31st St., New York, N. Y., will receive bids in the spring for a geological and biological laboratory for Princeton University, Princeton. Cost, $400,000.

PHILADELPHIA, PA.—Plans have been completed by Edgar V. Seeler, Real Estate Trust Bldg., for an 8-story printing house to be erected by the Curtis Publishing Co. at Sixth, Seventh, Walnut and Sansom Sts., at a cost of about $1,000,000.

WASHINGTON, D. C.—Harry Wardman, builder, 1333 G St., N. W., will erect ten apartment houses at 14th and Clifton Sts., to have three stories and to be of brick with stone trimmings. Cost, about $300,000. A. H. Beers is Arch., 1333 G St., N. W.

The following bids per pound were received Dec. 11 by Elliott Woods, Supt. U. S. Capitol Bldg. and Grounds, Washington, for 100,000 lbs., more or less, of 16-oz. cold rolled, annealed sheet roofing copper required for the roof covering of the Office Building, U. S. Senate, Washington: C. G. Hussey & Co., 2850 Second St., Pittsburg, Pa., 15.9 cts.; Rome Brass & Copper Co., Rome, N. Y., 16.04 cts.; Clendenin Bros., foot of Caroline St., Baltimore, Md., 17.05 cts.; U. T. Brass & Copper Co. Pearl and Park Sts., New York, 17.1 cts.; Merchant & Evans Co., 517 Arch St., Philadelphia, 17.2 cts.; Lewis H. Jones, Detroit, Mich., 17.5 cts.; Taunton-New Bedford Copper Co., New Bedford, Mass., 17.5 cts.; Crucible Steel Co. of America, Pittsburg, Pa., 17.75 cts.

*ASHEVILLE, N. C.—Bids are asked until 3 p. m., Jan. 20, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction, complete, of extension to U. S. post-office and court-house at Asheville.

*GAINESVILLE, GA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., until 3 p. m., Jan. 21, for construction, complete, of U. S. post-office at Gainesville.

PUNTA GORDA, FLA.—Bids are asked until 3 p. m., Jan. 10, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for the construction of quarters and boat house at Boca Grande Quarantine Station, Punta Gorda.

RAMSAY, LA.—St. Joseph's Abbey of St. Tammany Parish, recently reported burned, will be rebuilt at a cost of $150,000. Building is to be partly fireproof and mill construction with acetylene-gas lighting.

NEW ORLEANS, LA.—Bids are asked by Tulane University for erection of proposed Richardson Memorial building, to be three stories high, 241 × 65 ft., stone, ordinary construction with steam heat; electric lighting; freight elevator. Cost, about $150,000. Andry & Bendernagel, 211 Camp St., have completed plans and specifications. Contract will be let within about 60 days. Present building occupied by the medical department will be remodeled and renamed the Hutchinson Memorial. Other local architects are now preparing plans for the dormitories that will form part of the collection of buildings to be erected on the grounds and known as the Richardson Memorial Buildings.

It is stated that Crosby & Henkle, Morris Bldg., will prepare final plans for erection of proposed Delgado Hospital, upon completion of which bids for erection will be advertised. The structure will be five stories high, 78 × 180 ft.; exterior of French renaissance design of brick and terra-cotta with steel work. The piling of foundation is to be capped with concrete. Cost, about $175,000. Edwin Marks is Secy.-Treas. and Dr. E. S. Lewis Vice-Pres. Bd. of Administrators.

MEMPHIS, TENN.—John Gaisford, Arch., 470 Randolph Bldg., is preparing plans for a 7-story building for the Y. M. C. A., Thomas B. King, Pres. Estimated cost, $150,000.

DAYTON, OHIO.—E. W. Hanley, West Third St., will have plans prepared for an 8-story hotel, 120 × 180 ft., to be erected at Fifth and Ludlow Sts., at a cost of $250,000.

CLEVELAND, OHIO.—Bids are asked until Dec. 20, by Richards, McCarty & Bulford, Archs., the Ruggery, Columbus, until Dec. 20, for the completion of the 8-story brick and fireproof warehouse on Ontario St., Cleveland, for Eldridge-Higgins Co., Cleveland and Columbus. Cost, $200,000.

The Board of Education, Charles Orr, Dir., has instructed F. S. Barnum, Supt. Bldgs., Bd. of Education, to prepare plans for the John Hay high school building, to cost $300,000; also for an 18-room school building, on Columbia Ave., N. E.

INDIANAPOLIS, IND.—We are officially advised that bids will be received about Jan. 15 for constructing the proposed 4-story building for the Y. W. C. A. Estimated cost, $140,000. D. A. Bohlen & Son, Majestic Bldg., Indianapolis, are Archs.

CEDAR RAPIDS, MICH.—W. J. McALPINE, Dixon, Ill., has secured the contract to erect a court-house at $134,600.

DETROIT, MICH.—Bids were received as follows Dec. 17, at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of an extension to the post-office building at Detroit, Mich.: Ambrose B. Stannard, St. James Bldg., New York, $213,831; Paul Reisen's Sons, Milwaukee, Wis., $236,000; Vinton Co., Detroit, Mich., $223,924; E. W. Reid & Co., Detroit, $216,595; Northern Construction Co., Milwaukee, $233,793; William H. Maxwell, Spokane, Wash., $227,441; Conners Bros. Co., Lowell, Mass., $215,000; A. H. Wiese, South Omaha, Neb., $198,389; Robt. L. Robertson & Co., Detroit, $203,700. 19 months. Time of completion, Oct. 31, 1909, unless otherwise stated.

CHICAGO, ILL.—We are officially advised that Marshall & Fox, Archs., 164 Dearborn St., have let masonry contract to H. & J. ERICSSON, 84 La Salle St., for a warehouse to be built at Ohio and St. Clair Sts., for A. C. McClurg Co., 215 Wabash Ave. ANGUS BROS. & CO., 188 Madison St., have the carpentry contract. The warehouse will have two sections of mill construction with a fireproof section between, and will be four stories high with strength for six, 240 × 100 ft. Estimated cost, $130,000.

PEORIA, ILL.—The Leisley Brewing Co. has directed Reeves & Baillie, Y. M. C. A. Bldg., to prepare plans for a 6-story building to be used for business and hotel purposes. Estimated cost, $300,000.

STILLWATER, MINN.—Plans are being prepared for the erection of the States prison building by C. H. Johnson, Manhattan Bldg., St. Paul. Cost, $200,000.

ST. LOUIS, MO.—The St. Francis de Sales congregation is having plans prepared by V. J. Klutho, Benoist Bldg., for erection of a church to cost about $250,000. Rev. T. G. Holweck is Pastor.

Bids are asked by W. Russ Samuel, Arch., Times Bldg., for a 4-story apartment building, 74 × 110 ft., to be built on Lindell Boulevard. The building will be constructed of brick, Carthage stone, terra cotta and reinforced concrete, hard plaster, plate glass, poplar finish, oak flooring, interior marble, mosaic and tile, composition roof, architectural and structural iron and steel, gas and electric fixtures, mantels, gas ranges, water closets, bath tubs and lavatories. Cost, $150,000.

OKLAHOMA CITY, OKLA.—The Security Building Co. will erect a 3-story addition to the Security Bldg., which will make the structure six stories high, costing about $300,000. W. T. Hales is interested in the company.

The Harter Co. has had plans prepared for erection of office building to be eight stories high, 75 × 129 ft., of steel frame work. Cost, $150,000. Heber P. Harter is interested.

DENVER, COLO.—A building to cost $500,000 will be built in the spring at the corner of 15th and Champa Sts. It will be nine stories high, built of steel, with brick facing, and entirely fireproof. The floors are to be made of concrete. The ground floor will be devoted to business and the remaining floors will be used for offices. Bennett & Myers, 1010 16th St., Denver, are interested.

HOUSTON, TEX.—The Houston Belt & Terminal Co. is planning improvements to be undertaken during 1908, the expenditure to be about $300,000. These betterments will include the erection of freight houses.

SACRAMENTO, CAL.—Charles F. Whittlesey & Co., Archs., Hellman Bldg., Los Angeles, have plans for a hotel for the Sacramento Hotel Co., Sacramento, to cost $500,000.

OAKLAND, CAL.—A permit has been issued for the partial construction of the Taft & Pennoyer Bldg., at Clay and 14th Sts. This portion of the work is to cost $125,000. The total cost of the building is to be $325,000.

RENO, NEV.—The NORTHWESTERN CONSTRUCTION CO. has secured the contract for the new $150,000 Federal building to be erected here.

SALT LAKE CITY, UTAH.—Jacob Moritz has purchased the property extending 95 ft. on Second South St., 166 ft. on Plum Alley and 60 ft. on Commercial St., upon which he proposes to construct a 10-story building for office purposes. Estimated cost, $400,000.

ST. PAUL, QUE.—The Presbyterian congregation proposes erecting a new church to take the place of the one recently destroyed by fire. A. J. Aubrey, 165 Church Ave., St. Paul, is interested. The probable cost is placed at $165,000.

OTTAWA, ONT.—TAYLOR & LACKAY have been awarded the contract for the erection of the Collegiate Institute in Ottawa, at a cost of about $225,000.

TORONTO, ONT.—The Canadian Birbeck Investment & Savings Co., Home Life Bldg., will erect a 4-story brick office building on Adelaide St., at a cost of $120,000.

LONDON, ONT.—George Christie, Edward Meredith, Thomas Beattie and Philip Peacock have incorporated the King Edward Hotel Co. to erect an hotel here at a cost of $100,000.

WINNIPEG, MAN.—The contracts for the construction of the stone work of the Canadian Northern Ry. Co. depot and hotel will be commenced in the spring. E. E. Buckman, Winnipeg, is Superv. Bridges and Bldgs.

VANCOUVER, B. C.—D. Spencer, Ltd., Vancouver, will erect a store and arcade at a cost of about $240,000, it is stated.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

BURLINGTON, VT.—A 4,000,000-gal. pump and additional boiler capacity at the main or lake station and a 2,000,000-gal. pump, preferably motor-driven, at high service, are recommended by the Fire Prevention Committee of the National Board of Underwriters, 135 William St., New York, N. Y., in a report just issued.

JERSEY, CITY, N. J.—The Street and Water Board passed a resolution on Dec. 9 directing Charles Van Keuren, Ch. Engr. Bd., to prepare specifications for two 36-in. water mains to be laid under the Hackensack and Passaic Rivers. Estimated cost, $100,000. Louis L. Finke is Chn. Water-Works Com., St. and Water Bd.

WASHINGTON, D. C.—Specifications are on file at the office of Engineering News, New York, for boiler feed pumps, barometric condensers, centrifugal pumps, motors, cranes, and chimneys for the heating, lighting and power plant, U. S. Capitol and Congressional Buildings. Bids are asked until noon, Jan. 15, by Elliot Woods, Supt. U. S. Capitol Bldgs and Grounds.

BURLINGTON, N. C.—We are officially advised that this town will install waterworks and sewerage to cost $100,000. Gilbert C. White, Durham, N. C., is Engr. in Charge.

ATLANTA, GA.—We are officially advised that the WISCONSIN ENGINE CO., Corliss Wis., has been awarded the contract for furnishing one 20,000,000-gal. vertical tripie-expansion crank and fly wheel pumping engine with a guaranteed duty of not less than 170,000,000 ft. lbs. per 1,000 lbs. of dry steam, at $139,500. Noted fully on Dec. 5.

*MADISON, GA.—Bids are asked by E. W. Butler, Mayor, until 5 p. m., Dec. 31, for purchase of $50,000 of water-works, sewerage and electric light bonds. Bonds will bear interest at 4½%.

SPUDS ADDITION (Vicksburg post-office) MISS.—On Dec. 2 the citizens of the village of Spuds Addition voted in favor of constructing a municipal water system. A bond issue for $20,000 will be made. J. W. Hayes, Vicksburg, is Mayor.

ROCKTON, ILL.—A water-works system, costing about $17,000, may be installed at Rockton within a short time provided satisfactory arrangements can be concluded for financing the project.

SPRINGFIELD, ILL.—Bids will soon be asked by the City Council for the improvement of the water-works system. Frank H. Hamilton is City Engr.

MALMO, NEB.—The Village Board has appointed a committee to investigate the cost of installing a water-works system and electric light plant.

CHEYENNE, WYO.—The City Council has passed an ordinance providing for issuing $100,000 of bonds for additional water-works. An additional reservoir may be constructed west of the city and larger water mains may be laid.

DOLORES, COLO.—We are officially advised that the Town Council has ordered a survey and estimate to be made for a municipal water supply system and electric lighting plant. The work is now under progress and when completed will be submitted to the taxpayers to authorize an issue of bonds to cover the cost of the system. It will involve an expenditure of about $40,000. W. F. Ordway is Mayor; J. H. Eby is Engr.

DENVER, COLO.—Moses Hallet, trustee of the G. W. Clayton estate, 27 Clayton Boulevard, has completed arrangements for a water plant to supply the proposed Clayton school. Estimated cost, $10,000.

LAS ANIMAS, COLO. — BOYLE & SCHWARTZ, 117 East Bijou St., Colorado Springs, have been awarded the contract for installing water-works at the Ft. Lyon Naval sanitarium, at $17,140.

PUEBLO, COLO.—On Dec. 4 maps of a new reservoir to be built by Richard C. Fuller, Denver, in the Turkey Creek district, were filed. It will have a capacity of 903,000,000 cu. ft. and will cost $125,000.

TACOMA, WASH.—Resolutions have been adopted by the City Council providing for the improvement of a number of streets in Local Improvement District No. 527 by the construction of water mains together with other necessary fixtures. The cost of the improvement will be about $10,955. L. H. Pearson is Clk.

SAN FRANCISCO, CAL.—Plans for an auxiliary water system for fighting fires were introduced to the Public Utilities Commission by Thomas P. Woodward, City Engr., who said they covered 4,000 acres in a district bounded by Devisadero St., the bay, Channel St., Treat Ave. and 20th St., with a zone for the Potrero and part of North Beach. Estimated cost, $5,250,000.

The system comprises two reservoirs on Twin Peaks, one at 17th and Stanyan Sts., one at Jones and Clay Sts., two salt water pumping stations for emergency use, two fireboats, an underground pipe system with cisterns. Fresh water would be got from wells at Seventh and Harrison Sts., and at 16th and Shotwell Sts. and pumped to the high pressure stations. About 100 cisterns are provided.

PHOENIX, ARIZ.—We are officially advised that bids were received as follows on Dec. 2 by the Commissioner of Indian Affairs, Washington, D. C., for constructing and completing an addition to the water system at the Phoenix School, Phoenix: (A) special castings; (B) total bid, excepting special castings: T. C. Brooks & Sons, Jackson, Mich., (A) $75 per net ton; (B) $142,325. F. C. Mortimer, Chicago, (A) $80 per net ton; (B) $145,996. For pipe—American C. I. P. Co., Birmingham, Ala., (A) $65 per ton; (B) $86,747. Colorado Fuel & Iron Co., Denver, Colo., (A) $67.50 per ton; (B) $88,262. U. S. Cast Iron Pipe & Foundry Co., Birmingham, Ala., (A) $65; (B) $89,911. A. M. Ozburn, Chicago, (A) 8 8 (B) $93,334. Dimmick Pipe Co., Birmingham, (A) $64; (B) $89,261. R. D. Wood Co., Chicago, (A) $80; (B) $128,154.

For hydrants and valves, f.o.b. Phoenix—(C) hydrants; (D) valves: R. D. Wood Co., Chicago, (C) $4,512; (D) $5,726. Merkle Machinery Co., (D) $4,500. Ludlow Valve Mfg. Co., Troy, N. Y., (C) $4,734; (D) $5,748. J. B. Clow & Sons, Chicago, (C) $4,911; (D) $5,965.

For laying pipe and setting valves and hydrants: Chick & White, Berkeley, Cal., $49,618; J. B. Girand, Prescott, Ariz., $53,-305. Contracts were awarded as follows: Pipe, AMERICAN C. I. P. CO.; valves, LUDLOW VALVE MFG. CO.; hydrants, R. D. WOOD CO. (Matthews hydrants). R. A. Craig is Supt. Water Dept., Phoenix. All bids for labor and installation were rejected. New bids for this work are asked until Jan. 10, as advertised in Engineering News. Itemized bids are given under Contract Prices.

TWIN FALLS, IDAHO.—The Twin Falls Salmon River Irrigation Co. has been incorporated with a capital of $500,000, by I. B. Perrine, H. L. Hollister, Robt. McCullom and others, to construct, it is reported, a reservoir system to cost about $2,500,000. The water will be taken from Salmon River after being stored in a reservoir that will hold 350,000 acre ft. The dam will be 70 ft. across at the bottom and will be 200 ft. high; a tunnel will be driven from the lava wall of the river, located at a point 75 ft. below top of the dam, a distance of 3,000 ft. The tunnel will open directly upon the land to be irrigated and will require no canals other than for distribution of water. Near the head of the river a reinforcing reservoir is to be installed. Title to a section of land has been secured 17 miles southwest of Twin Falls near center of new tract, upon which the town of Hollister will be located.

CHESLEY, ONT.—The Town Council will submit a by-law to the ratepayers authorizing the raising of $38,000 for the installation of water-works.

LONDON, ONT.—The ratepayers will vote on a by-law to provide $393,000 for water-works, $235,000 to be used for the distributing plant for Niagara power and $19,000 for new fire halls. Miss A. Grant is City Clk.

CARLETON PLACE, ONT.—A proposed by-law to raise $200,000 for the installation of sewage and water-works system for this town is being considered by the Council.

HAMILTON, ONT.—T. W. Sotham, Ch. Engr., Hydro-Electric Power Comn., has completed specifications for the two new 6-million gal. electric pumps to be installed in Hamilton. Estimated cost, $30,000.

WINNIPEG, MAN.—We are officially advised that the date for receiving bids for cast-iron water pipe has been extended to Jan. 15. H. N. Ruttan is City Engr.

Tenders will be received until Jan. 2, by the Board of Control, for supply and installation of pumping and air compressing machinery for Well No. 7. M. Peterson is Secy. Bd.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

NORTH ANDOVER (Lawrence Post-office), MASS.—E. W. Bowditch, C. E., 60 Devonshire St., Boston, has been engaged to prepare plans for system of sewers for the town of North Andover. Estimated cost, $300,000. The plans will be submitted to the voters at a town meeting to be held in March. Nathaniel Stevens is Chn.; Andrew Reeves, Clk.

HARTFORD, CONN.—Bids are asked by the Board of Contract and Supply at the Mayor's office until 2 p. m., Dec. 30, for the construction of Section B of the Homestead Ave. intercepting sewer consisting of about 2,800 lin. ft. of concrete or brick conduit in tunnel 4 ft. 9 ins. in diameter.

MOUNT KISCO, N. Y.—The village has voted to build sewers to cost $100,000, of which $40,000 will be for trunk sewer and $60,000 for laterals. It is stated that the city of New York will erect a disposal plant to cost $250,000, to care for the sewage of the village.

AUBURN, N. Y.—The Syracuse Excavating Co. was the lowest bidder on the sewer work alone for the construction of sewers in the Fourth, Fifth, Sixth and Seventh Wards, at $77,147 for 24-in. pipe, and $79,350 for 36-in. pipe. Brayer Bros., Auburn, were the lowest gross bidders, and the D. M. Rosser Co., Erie, Pa., was the lowest bidder for the construction of the sewage purification plant. J. W. Ackermann is City Engr.

NIAGARA FALLS, N. Y.—The Board of Public Works has approved the plans of the City Engineer for a tunnel trunk sewer for the relief of the factories to the east of Echota. The sewer will be laid in Royal Ave. Estimated cost, about $67,000.

PLAINFIELD, N. J.—All bids for the construction of a storm sewer in Plainfield Ave. were rejected on Dec. 9 by the Common Council.

BURLINGTON, N. C.—See under Water-Works.

*MADISON, GA.—Bids are asked by E. W. Butler, Mayor, until 5 p. m., Dec. 31, for purchase of $50,000 of sewerage, water-works and electric light bonds. Bonds will bear interest at 4½%.

EAST LAKE (Birmingham post-office), ALA.—The citizens have voted $25,000 bonds for the construction of sewerage. Julian Kendrick is City Engr., Birmingham.

VICKSBURG, MISS.—The city will issue $250,000 of sewer bonds. W. G. Kirkpatrick of Jackson has been engaged to survey and design the sewer system. B. W. Griffith is Mayor.

CHATTANOOGA, TENN. — BOSLER & FLYNN were awarded the contract on Dec. 10 by the Board of Public Works for the construction of the Grand Ave. sewer at $29,200.

SPRINGFIELD, OHIO.—Bids are asked until noon, Dec. 26, by the Board of Public Service for the construction of a sewer in Ludlow Ave, between High St. and Sheridan Ave.; in Sheridan Ave. between Ludlow Ave. and Burt St.; in Burt St. between Sheridan Ave. and Mill Run. F. A. Crothers is Clk. Bd.

CANTON, OHIO.—Bids are asked until noon, Jan. 3, by the Board of Public Service for the construction of a storm water sewer on East Fourth St., from its present terminus near the bridge to Gibbs St.; branch sewer south from Fourth to Fifth Sts. in Gibbs St.; branch sewers north and south from Fourth St. in Rowland St. and in Young St.; also branch sewer in Young St., south from Pennsylvania Ave. to the Pittsburg, Ft. Wayne & Chicago Ry. The approximate quantities are as follows: 1,355 lin. ft. 36-in. brick sewer, 980 lin. ft. 24-in., 740 lin. ft. 20-in., 1,230 lin. ft. 18-in., 935 lin. ft. 15-in., 80 lin. ft. 12-in. vitrified pipe, five manholes on brick sewer, 13 manholes on pipe sewers, and 46 catch basins. Thomas M. Pexton is Pres. Bd.; Robert E. Kline is City Engr.

YOUNGSTOWN, OHIO. — ANTHONY O'HORO was awarded the contract on Dec. 5 for the construction of a sewer in Truesdale Ave. and Rigby St. at $3,603. F. M. Lillie is City Engr.

ORRVILLE, OHIO.—JOHN SKEELES, Canton, Ohio, was awarded the contract on Dec. 9 for the construction of sanitary sewers at $85,000.

YOUNGSTOWN, OHIO.—Bids are asked until Dec. 27, for the construction of the Mahoning Ave. sewer, 1½ miles in length.

LAKEWOOD, OHIO.—Bids are asked by B. M. Cook, Town Clk., until 11 a. m., Dec. 23, for laying sewer mains in Nicholson and Lake Aves.

EVANSVILLE, IND.—The following bids were received on Dec. 7 by the Board of Public Works for the construction of a 7-in. sewer in Seventh Ave., from Franklin to Lamasco Sts.: The Zeller-Hughes Co., 93 cts. a lin. ft, $29 for inlets, $23 for each manhole; the Newman-Vineyard Co., 69 cts. per lin. ft., $30 for inlets, $25 for each manhole. James D. Saunders is City Engr.

INDIANAPOLIS, IND.—Charles A. Brown, Asst. City Engr., is preparing plans for a sewer in Spring St., from Ohio to Walnut Sts., with laterals running east in the alley.

TECUMSEH, MICH.—All bids for constructing sewer system have been rejected and new bids will be asked soon.

PARIS, ILL.—Property owners on the north side of the city are petitioning the Board of Local Improvements to establish a sanitary sewer district in that section.

MOLINE, ILL.—Residents of the Sixth Ward are advocating construction of a sewer system for that section of the city, and Clark G. Anderson, City Engr., is preparing tentative plans for such a system. Estimated cost, $100,000.

WILMETTE, ILL.—Plans have been prepared for the construction of a sewer system for the village of Wilmette. John D. Couffer, Pres., Ninth and Lake Sts. Estimated cost, $150,000.

CLINTON, IOWA.—We are officially advised that bids are asked by the city until Jan. 14, for about 3,500 ft. of 12-in. to 36-in. pipe sewer. Charles P. Chase is City Engr.

DES MOINES, IA.—George Dobson, City Engr., has submitted to City Council a plan for combining all city sewers into a large trunk sewer with an outlet into the Des Moines River, two miles south of the forks of the Raccoon and Des Moines Rivers. Estimated cost, about $75,000.

FREDONIA, KAN.—Plans are being prepared for the construction of a sewer system, to cost $40,000. R. S. Spencer is City Clk.

HOT SPRINGS, S. DAK.—Bids are asked until Jan. 3 at the office of Treasurer, Battle Mts. Sanitarium, N. H. D. V. S., Hot Springs, S. D., for furnishing and delivering vitrified pipe. W. A. Tucker is Treas.

WEBB CITY, MO.—An ordinance providing for the proposed new outfall sewers, to be known as the Madison St., Central Ave. and Ash St. sewers, Nos. 1 and 2, has been passed by the Council. The ordinance provides for the cost and line of route of each sewer; another ordinance provided for a special election to vote bonds for sewer construction, and was also passed; it sets the date of election for Jan. and provides for the issuance of bonds in amount of $17,000.

SHERMAN, TEX.—All bids received for the construction of a sewera system about one mile long, have been r and new bids will be called for. He Zimmerman is City Secy.

GALVESTON, TEX.—Kelso & Vautrin were the lowest bidders for construction of reinforced storm drain, 42 in 19th St., at the following prices: regular section, $13,839; special section, catch basins, $464; manholes, $40; timber, $1,620; total, $17,736.

DALLAS, TEX.—The SAN ANTONIO SEWER PIPE CO. was awa the contract on Dec. 7 for 20,000 ft sanitary and storm sewers to be laid Main St.

EL RENO, OKLA.—The City prepared plans and specificatio sewer has extensions. Bids will be asked soon.

ALBUQUERQUE, N. MEX. James N. Gladding, City Engr., has prepar plans for the reconstruction of the sewer system. Estimated cost, about $400,000.

SACRAMENTO, CAL.—The city has voted $200,000 of bonds to complete sewer system; work will be done mostly in the Eastern District. George Randall is City Surveyor. M. J. Desmond is City Clk.

WELLAND, ONT.—The ratepayers will vote at the January elections to issue $13,000 5%, 30-year debentures to pay the city's share of a trunk sewer from Lincoln St. to the Welland River. Henry W. Ivall is Clk.

TORONTO, ONT.—C. H. Rust, City Engr., and the Medical Health Officer of this city have reached an agreement on a suitable sewage disposal system for this city, which will be situated at the foot of Greenwoods Ave. and will cost $2,500,000 to install with an additional $800,000 for bacteria beds, if such are found necessary. This proposal will be put before the Council soon.

PEMBROKE, ONT.—It is stated that septic tanks will be installed in connection with the sewage system of the military camp at Petawawa, in chare of the Public Works Department. Dr. R. W. Bell is Provincial Medical Inspector.

GUELPH, ONT.—J. A. LeGRAND, Guelph, has been awarded the contract for the erection of septic tanks in connection with the sewage system of this city, at $1,455.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

SALISBURY, CONN.—Bids are asked until 3 p. m., Dec. 23, by the State Highway Commissioner, the Capitol, Hartford, for the construction of 4,755 lin. ft. of road in Salisbury. Two separate bids are required, as follows: One for an 8-in. gravel treatment over a 12-in. bed course of slag; the other for a 7-in. macadam treatment over a bed course of 12-in. slag.

OLEAN, N. Y.—The Board of Supervisors on Dec. 11 authorized the building of the State road from Olean to Portville at a cost of $65,000. This will give one continuous road from Portville to Allegany, a distance of about 12 miles.

PATCHOGUE (L. I.) N. Y.—Plans, specifications and bids will soon be asked by the Village Trustees for the construction of the Shore road along the bay front between Cedar and Rider Aves.

ALBANY, N. Y.—As a result of the opening of bids received on Nov. 18th and 21st, for the improvement of the public highways, Frederick Skene, State Engr. and Surv., has made the following awards of contracts: To STEWART-KERBAUGH-SHANLEY CO., 527 Fifth Ave., New York, Road No. 345, Canajoharie-Sprout Brook, Montgomery County, 4.06 miles, $38,611; Road No. 382, Walden-Pine Bush, Orange County, 6.57 miles, $57,-547; Road No. 398, County Line, Orleans and Monroe Counties, 5.55 miles, $30,342. Road No. 428, Watertown-Carthage, Section 3, Jefferson County, 4.882 miles, $32,048. Road No. 531, Base Line, Section 2, Erie County, 2.59 miles, $18,195; Road No. 532, Base Line, Section 3, Grand Island, Erie County, 1.87 miles, $10,425; Road No. 623, Geneseo-Avon, Livingston County, 6.99 miles, $56,515; Road No. 643, North Tonawanda-Sandborn, Secs. 1 and 2, Niagara County, 4.44 miles, $39,829; Road No. 649, Hudson-Stottsville, Columbia County, 1.02 miles, $14,030; Road No. 653, Granby Roads, Oswego County, 5.06 miles, $57,586; Road No. 660, Griswold St.-Bratts Bridge, Niagara County, 5.98 miles, $65,269; Road No. 684, Cato-Meridan-Baldwinsville, Cayuga County, 4.40 miles, $55,753.

To PATRICK A. LILLIS, 3368 Sixth Ave., Troy, N. Y.: Road No. 408, Rich's Dugway-Penfield, Monroe County, 2.45 miles, $25,700. Road No. 403, Churchville-Riga, Monroe County, 2.08 miles, $17,413; Road No. 474, Clover St. Road, Sec. 2, Monroe County, 1.95 miles, $14,695; Road No. 477, Valley Falls Road, Rensselaer County, 6.58 miles, $43,-371; Road No. 478, Haynerville-Raymertown, Rensselaer County, 3.21 miles, $25,280; Road No. 479, Fairport, Sec. 2, Monroe County, .27 mile, $3,376; Road No. 490, Hoosick-North Hoosick, Rensselaer County, 6.36 miles, $24,107.

To JOSEPH WALKER, Stone Ridge, N. Y.: Road No. 308, New Paltz-Rifton, Ulster County, 4.15 miles, $43,010.

To CHAMBERS & GRADY, Rochester, N. Y.: Road No. 273, Seneca River-North Side, Seneca County, 1.301 miles, $14,868; Road No. 539, Fulton-Volney, Oswego County, 2.00 miles, $16,783; Road No. 593, Homer-Tully, Sec. 2, Cortland County, 5.43 miles, $43,327.

To CASEY & MURRAY, Rochester, N. Y.: Road No. 258, Horseheads-Corning, Chemung Count, 7.143 miles, $77,954; Road No. 421, Conklin, Broome County, 7.531 miles, $58,766; Road No. 462, Old Forge-Woodhull-Keever, Herkimer County, 11.02 miles, $79,664.

To GREECE CONSTRUCTION CO., 718 Chamber of Commerce, Rochester, N. Y.: Road No. 391, Clarendon-Holley, Sec. 1, Or-

leans County, 4.53 miles, $25,136; Road No. 402, Buffalo, Sec. 3, Monroe County, 3.62 miles, $24,891.

To MORRIS KANTROWITZ, Albany, N. Y.: Road No. 566, Wolf Hill-Berne, Albany County, 7.34 miles, $66,797.

To WHITMORE-RAUBER-VICINUS CO., 270 South Ave., Rochester, N. Y.: Road No. 401, Rapids, Monroe County, 1.90 miles, $27,171.

To ELMORE & HAMILTON, Schenectady, N. Y.: Road No. 411, West Point-Cornwall, Orange County, 2.47 miles.

To SAMUEL BESKINS, Fishkill, N. Y.: Road No. 568, Milbrook-Lithgaw, Dutchess County, 4.40 miles, $37,398; Road No. 600, Washington Hollow-Milbrook, Dutchess County, 1.63 miles, $12,777.

To W. F. McCABE, White Plains, N. Y.: Road No. 587, Mt. Kisco-Millwood, Westchester County, 4.39 miles, $36,775; Road No. 627, Croton River-Peekskill, Westchester County, 6.01 miles, $71,088.

To JOHN E. CONSAULUS, Staten Island, New York: Road No. 613, Catskill-South Cairo, Greene County, 5.62 miles, $57,087.

To JEREMIAH T. FINDCH, Glens Falls, N. Y.: Road No. 651, Clintonville-Keeseville, Clinton County, 5.58 miles, $55,750.

To J. K. PALMER & CO., Clearfield, Pa.: Road No. 674, Milford Center-Milford, Otsego County, 6.52 miles, $70,050; Road No. 675, Otsego-Oneonta, Otsego County, 3.06 miles, $43,179; Road No. 676, Otego-Wilsey's Corners, Otsego County, 2.05 miles, $17,038.

To S. B. VAN WAGONER, Rondout, N. Y.: Road No. 678, Morris-Gilbertsville, Otsego County, 2.64 miles, $24,577.

Full lists of bids received were given on Nov. 18 and Nov. 25.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., Dec. 30, for furnishing materials, repairing and restoring artificial stone sidewalks and curbing and resetting natural stone curbing.

ROCHESTER, N. Y.—Whitmore, Rauber & Vicinus, 279 South Ave., were the lowest bidders for laying trap rock pavement on Atkinson St. from Reynolds St. to the Pennsylvania R. R. tracks at $14,921. Edwin A. Fisher is City Engr.

CAMBRIA (Lockport post-office), N. Y.—Bids will soon be asked by the Board of Supervisors of Niagara County for the construction of the Shawnee-Cambria road, the improvement having been decided upon on Dec. 9 by the Board of Supervisors. Estimated cost, $28,500, of which the state will pay $14,250, the county $9,975, and the town of Cambria, $4,375.

SALEM, N. J.—We are officially advised that TUFT & LLOYD, Salem, were awarded the contract by the Board of Chosen Freeholders on Dec. 10 for the construction of the Mannington shell road, 1.58 miles, in Mannington Township, at $10,900, subject to the approval of the State Commissioner. J. F. Ayers is Dir. Bd. J. J. Albertson is County Engr.

FLEMINGTON, N. J.—THE DELAWARE RIVER QUARRY & CONSTRUCTION CO. was awarded the contract on Dec. 12 by the Board of Supervisors for macadamizing the road from Somerset County line to Pleasant Run at $48,852. Grant Davis is County Engr.

BELLEVUE (Allegheny post-office), PA.—See under Sewers.

WASHINGTON, PA.—We are officially advised that bids are asked until noon, Dec. 20, by the County Commissioners, for the repair of the roadway and culverts and cleaning out the side ditches of several sections of improved highways, as well as such other repairs as the county engineer may direct. Plans and specifications are on file at office of Engineering News, New York. The work will require about 700 or 800 cu. yds. of broken limestone per mile of road. About ten miles of road will be repaired. William Wylie is County Road Engr. H. R. Campbell is Clk. Comrs.

DORRANCETON (Wilkes-Barre post-office) PA.—Bids are asked until 8 p. m., Dec. 23, by the Town Council for paving, curbing and grading James St., from Wyoming Ave. to Rutter Ave., with United States creoresinate wood block on concrete foundation, and for paving, curbing and grading Dorrance St., from Wyoming Ave. to Railroad St., with vitrified fire clay paving block upon a concrete foundation. William A. Atens is Chn.

FORT WASHINGTON, MD.—Bids are asked in triplicate until 2 p. m., Jan. 10, by the Constructing Quartermaster, Fort Washington, for re-surfacing macadam roads.

*WASHINGTON, D. C.—Bids are asked until 2 p. m., Dec. 26 by the Commissioners District of Columbia for furnishing the District Government 6-in. × 20-in. granite curbing during the remaining portion of the fiscal year ending June 30. Henry B. F. Macfarland, Henry L. West, Jay J. Morrow are the Comrs., D. C.

PALATKA, FLA.—THE GRAVES SHALE PAVING BRICK Co., First National Bank Bldg., Birmingham, has been awarded the contract by the Board of Bond Trustees for grading and paving with vitrified brick at $1.54 per sq. yd.; 40 cts. per lin. ft. for granite concrete and gutter plain; 59 cts. per lin. ft. for concrete steel protected curb and gutter plain; 69 cts. per lin. ft. for concrete steel protected gutter plain.

MARYSVILLE, OHIO.—F. M. KEMP & Co., Middletown, Ohio, have been awarded the contract for paving various streets in this city at about $40,000.

HUGH O'DONNEL secured the contract for the extension of gravel road petitioned for by Fred. C. Miller and others at $4,427.

CINCINNATI, OHIO.—The following contracts were awarded on Dec. 5 by the Board of Public Service for (a) paving St. Lawrence St., from Squire St. to the Delhi Township line, (b) building retaining wall and restoring the street at McMicken Ave. and Borden St.: (a) T. STRACK, at $9,686, (b) C. H. GLANDORF, at $7,070.

DANVILLE, IND.—Bids are asked by the Commissioners of Hendricks County until 10 a. m., Jan. 6, for the construction and improvement of the highway on the boundary line between Center and Middle townships by grading, draining and macadamizing with broken stone, 14,598 ft. in length. D. D. Mills is County Audr.

VINCENNES, IND.—The contract for the extension of the gravel road petitioned for by Martin Wampler and others was awarded on Dec. 3 by the County Commissioners to O. W. HOMES at $9,300.

CROWNPOINT, IND.—Bids are asked by the Commissioners of Lake County until noon, Jan. 6, for the construction of gravel roads known as the Buff Roads Nos. 1 and 2 in North Township. Charles A. Johnson is County Audr.

VINCENNES, IND.—Bids are asked until 2 p. m., Jan. 7 by the Commissioners of Knox County for the construction of gravel roads in Vincennes and Decker townships. John T. Scott is County Audr.

INDIANAPOLIS, IND.—The Board of Public Works has ordered plans and will soon ask for bids for the following street work: Opening and paving Shank St.; paving Butler St. with flint rock macadam, brick gutters, concrete curb; paving with brick, roadway of Bosart St.

LEBANON, IND.—Bids are asked by the Commissioners of Boone County until 1 p. m., Jan. 6, for the construction of a gravel road in Clinton township, known as the Martin road, about 9,253 ft. in length. B. F. Simons is County Audr.

LOGANSPORT, IND.—Bids are asked by the Commissioners of Cass County until 10 a. m., Jan. 6, for the construction of a gravel road in Deer Creek Township, known as the Poundstone road, 23,760 ft. in length. George W. Cann is County Audr.

OTTAWA, ILL.—All bids were rejected by the Board of Local Improvements for constructing 41,000 sq. yds. of brick pavement with granitoid curbs, gutters and crosswalks. Bids will be readvertised. Charles F. Wilson is Secy Bd.

CHICAGO, ILL.—Bids are asked until 10.15 a. m., Dec. 23, by the Board of Local Improvements for the improvement of various streets and alleys.

RACINE, WIS.—Bids are asked by the Board of Public Works at the office of the City Clerk until Dec. 28, for grading and paving Fifth St., from Main St. to Lake Ave. P. H. Connolly is Chn. Bd.

DES MOINES, IA.—J. W. CAMPBELL was awarded the contract on Dec. 4 by the Board of Public Wks. for paving Sixth and Seventh Sts., from Mulberry to Locust Sts., with creosoted blocks at $2.46 per sq. yd., and Mulberry St., from Fifth to Ninth St., at the same price per cu. yd.

The following bids were received by the Board of Public Service on Dec. 4 for street improvements: For paving Tenth St., from Pleasant to Scott Sts., with brick, Hansman Improvement Co., $2.20 a sq. yd.; Flint Brick Co., $2.15 per sq. yd. Eleventh St., from University to Forest St., with asphalt, W. A. Bryant & Sons Co., $2.15 per sq. yd. Washington Ave., from Seventh to Eighth St., with asphalt, W. A. Bryant & Sons Co., $2.15 per sq. yd. West Sixteenth St., from School St. to Good's Park, with brick, Hansman Co., $2 per sq. yd.; Flint Brick Co., $2.04; Cook Construction Co., $2.06. Curbing West Tenth St., from Scott to Pleasant St., C. C. Christie, 42 cts. a lin. ft. Combined curbing and guttering of Fourteenth St., from Center to Crocker Sts., Hansman Co., 52 cts. a lin. ft.; King Construction Co., 53 cts.; C. C. Christie, 54 cts. Prospect Boulevard, from Sixth to Ninth St., C. C. Christie, 62½ cts.; King Construction Co., 77 cts. George D. Dobson is City Engr.

FARGO, N. DAK.—JAMES KENNEDY was awarded the contract on Dec. 5 by the Board of County Commissioners for paving the approach to the South bridge with creosote blocks on a plank foundation at $3,263. Samuel F. Crabbe is City Engr.

CHEHALIS, WASH.—The City Council has awarded the contract to ANDERSON & ROBINSON for the construction of Park School, Washington and Adams Sts., at $8,500.

SEATTLE, WASH.—We are officially advised that R. H. Thomson, City Engr., has reported upon the estimated cost of the following street improvements: West Stacey St., planking, $1,300; alley in Block 20, Boren's Addition, paving, $3,000; Prospect St., and other streets, concrete walks, $14,900.

Ordinances have been passed, ordering the following improvement of 32d Ave. Northwest and other streets with concrete walks. Estimated cost, $4,191.

SEATTLE, WASH.—We are officially advised that ordinances have been passed ordering the following street improvements: Graham Ave., by grading. Estimated cost, $27,000; alleys in Block 14 and other blocks, Maynard's Plot, by paving; estimated cost, $7,000; Davis Place and other places by grading, estimated cost, $30,200; Main St., by brick paving, estimated cost, $4,100. R. H. Thomson is City Engr.

SAN BERNARDINO, CAL.—Bids are asked until 11 a. m., Dec. 23, by the Board of Supervisors for the construction of a wagon road 5,358 ft. in length, 12 ft. in width (at turnouts 20 ft.) in Santa Ana Canyon.

SIERRA MADRE, CAL.—Bids are asked by the city until 8 p. m., Dec. 26, for grading, oiling and construction of cement curbs, gutters and pipe culverts on Central Ave., from Sierra Madre Ave. to Canon Ave. J. J. Graham is City Clk.

LEWISTON, IDAHO.—Bids are asked by W. L. Gifford, City Clk., until 10 a. m., Jan. 16, for the construction of the J. Roth road in Road District No. 8.

OTTAWA, ONT.—THE IROQUOIS IRON WORKS, Buffalo, N. Y., has been awarded the contract for furnishing the proposed municipal asphalt plant at $14,800.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

CAMBRIDGE, MASS.—The WILLARD FILLMORE CO., 25 Cherry St., has the contract to build an addition to the John C. Dow Co.'s factory, on Portland St.

SYRACUSE, N. Y.—Merrell-Soule Co., North Franklin St., has increased its capital stock to $1,500,000 for the purpose of building plants to manufacture dry milk and egg powder. G. G. Merrell is Pres.

JERSEY CITY, N. J.—We are officially advised that Jabez Burns & Sons, dealers in machinery, 542 Greenwich St., New York City, will erect a $50,000 2-story building to contain machine shop, 157 × 275 ft. at Claremont Ave. and Halsey St., for which John T. Rowland, Jr., Arch., 15 Exchange Pl., Jersey City, has prepared plans. The building will be erected in the spring and will be built of brick.

SHARON, PA.—E. E. Clepper, Arch., 302½ East State St., Sharon, is preparing plans for a chill roll foundry building, 70 × 100 ft., with three annexes. Construction will be of structural iron, with concrete panels and slate roof.

EASTON, PA.—Bids are asked until Jan. 3, by A. A. Ritcher, Arch., Lebanon, for erecting a fireproof granite and concrete bank and office building, 32 × 158 ft., estimated to cost $180,000.

COVINGTON, VA.—The Alleghany Ice Co., recently incorporated with $25,000 capital stock, will establish a 25 to 30-ton ice plant. The company will erect building about 50 × 100 ft., and install ice and refrigerating machinery. E. M. Nettleton is Pres.; C. D. Lam is Secy.

CHARLOTTE, N. C.—It is stated that Dr. C. L. Alexander will have plans prepared by Hook & Rogers for erection of garage and automobile repair shop for Armistead Burwell, Jr. The structure will be three stories high, equipped with elevators, turntables, etc., and cost about $8,000.

WELDON, N. C.—Arrangements are being completed by the Shaw Cotton Mills of Weldon for the construction of a yarn plant. A 2-story brick building, 50 × 150 ft., is to be erected and an equipment of 5,120 frame spindles will be installed to be run by gas power. 2-ply 24 × 36 cotton yarns will be manufactured. The concern is capitalized at $100,000. W. T. Shaw is Pres.

CONCORD, N. C.—The Hanover Mfg. Co., recently incorporated with a capital of $150,000, will build a new plant. L. W. Brander is Pres. William M. Greenwood and Walter S. Savage, of New York, are interested.

CHARLESTON, S. C.—A. C. Tobias, George A. Wagener, R. G. Rhett and others will incorporate a company with a capital stock of $250,000, to build a cotton pickery and waste mill, 450 × 80 ft.

WAYCROSS, GA.—The South Atlantic Car & Mfg. Co. has adopted plans for erection of new buildings to replace those recently destroyed by fire. The assembling shed will be 500 × 20 ft., and dimensions of other buildings will be: about as follows: Forge shop, 200 × 100 ft.; two or more paint sheds, 300 × 50 ft.; woodworking shops, 280 × 100 ft., and storage room, 100 × 60 ft. It is expected that work will be started within 60 days. J. S. Bailey is First Vice-Pres. George Dole Wadley, Atlanta, Ga., will be manager and be in charge of rebuilding work and operation of plant when completed.

SAMANTHA, ALA.—The rope and yarn mills recently destroyed by fire at a loss of $20,000 will be rebuilt it is stated. George A. Searcy, of Tuscaloosa, Ala., is interested.

GORDON, ALA.—The Beasley Steam Pump Puller Co. contemplates expending about $50,000 for buildings and machinery for plant recently referred to. The daily output will be five steam stump pullers and 10-HP. stump wringers. The company may buy equipment for building hoisting engines or complete plant already established. R. L. Beasley is interested.

CHATTANOOGA, TENN.—It is reported that plans have been completed by the Wachovia Mills of this city for the erection of a large cotton mill. Its equipment will consist of 100,000 spindles and 3,500 looms for the manufacture of cloth. A finishing department will also be installed. This company was incorporated and organized last year with a capital stock of $1,500,000. W. J. Young is Gen. Mgr.

HUMBOLDT, TENN.—The Trenton Machine Works & Supply Co., Trenton, Tenn., and the Humboldt Machine Works at Humboldt will be consolidated as the Humboldt Machine Works. Equipment of Humboldt plant will be increased and gasoline engines and boilers will be manufactured in addition to regular machine work. H. A. Watson and H. Baumgartner, formerly of Trenton, Tenn., and W. M. Bunton, formerly of Jackson, Tenn., are interested.

KOKOMO, IND.—It is reported that bids will be received for the reconstruction of the Kokomo Brass Works plant as soon as plans are completed.

TERRE HAUTE, IND.—The Thatcher A. Parker Co. has been incorporated to establish and equip an iron factory in this city. Capitalization, $50,000. T. A. Parker, Warren Hussay and W. B. Hice are Dirs.

TIPTON, IND.—The Indiana Union Traction Co. has awarded a contract to W. R. HICKS of Elwood, Ind., for construction of new car barns in this city. The old barns were recently destroyed by fire entailing a loss of $90,000. The new buildings will be larger. H. A. Nicholl, Anderson, Ind., is Gen. Mgr.

QUINCY, ILL.—The Excelsior Stove & Mfg. Co. contemplates erection of a 6-story addition to its present plant. Brick and steel will be used for construction, with composition roof, glav, iron cornice, electric fixtures, lavatories and water closets. Cost, $50,000. J. J. Fisher is Pres.

DANVILLE, ILL.—J. Scully, of Chicago, Ill., is reported to have secured a site near the plant of he Danville Car Co., on which he intends erecting a plant, to cost $150,000. J. O. Gordon, of the firm of Gordon & Ganor, of Danville, is reported interested.

WASHINGTON, IOWA.—The Wagon Box Co., care C. M. Keck, has let general contract to C. R. DAVIS for a 3-story brick and stone factory building, 70 × 143 ft., it is stated.

CARLYLE, KAN.—The Lumberman's Portland Cement Co., Kansas City, has had plans prepared for a brick plant at Carlyle to cost $100,000. B. W. BALLOU, Neodesha, Kan., has contract for construction.

LINCOLN, NEB.—The Columbus Brewery Co. will have plans made for alterations and additions to its plant, to cost about $16,000.

KANSAS CITY, MO.—The George C. Newland Ice Co. will erect a $50,000 ice plant at the foot of Packard St. in Armourdale to have a capacity of 50 tons of ice a day.

ST. LOUIS, MO.—The Con P. Curran Printing Co., 401 North Third St., is having plans prepared by Mariner & LeBeaume, Chemical Bldg., for erection of printing plant. It will be six stories high, 74 × 130 ft. and will cost $75,000.

DALLAS, TEX.—J. R. GILLILAND has the contract for the erection of a reinforced concrete building for the Oak Cliff Paper Mill Co. John G. Fleming is Mgr.

LAGRANGE, TEX.—G. T. Norton, Arch., St. Louis, Mo., will soon prepare plans for a 3-story cold storage house at Lagrange for the William J. Lemp Brewing Co., 13th and Cherokee Sts., St. Louis. Estimated cost, $20,000.

HOUSTON, TEX.—The Houston Ice Cream Co., composed of J. M. Jones, C. L. House and Turner White, will erect a 2-story building, to have a daily capacity of 1,000 gallons, timated cost, $80,000.

PORTLAND, ORE.—The Brown-Yale Co., of Duluth, Minn., will erect a laundry on a lot on the east side of East Tenth St., between East Morrison and Belmont Sts. Estimated cost, $30,000.

LEWISTON, IDAHO.—The West Coast Portland Cement Co. will construct a plant on the Upper Snake River. The first section will produce 100 bbls. a day. J. M. Edwards is Mgr.

BONAVENTURE RIVER, QUE.—Hon. W. C. Edwards, Rockland, Ont., and A. McLean of Buffalo, will erect four mills at the mouth of the Bonaventure River, consisting of a saw mill, a shingle mill, a pulp mill and a paper mill.

RIVIERE DU LOUP, QUE.—Contract has been let to DUKE & DUMONT for the new Intercolonial Ry. shops here. This contract is for the erection of two large steel framed buildings for the construction of locomotives and general repairs. The amount specified is $89,874. F. J. Loze is Master Mech., Riviere du Loup.

CHATHAM, ONT.—Keough & Trotter will erect a machine shop addition to their present works at once, it is stated. The structure will be 100 × 40 ft.

SUDBURY, ONT.—The Evans Co., Ltd., will rebuild planing mill recently destroyed by fire, involving a loss of $50,000.

GODERICH, ONT.—F. C. Hennicke, of Buffalo, N. Y., may erect a factory here for the manufacture of brass and iron bedsteads. H. W. Thompson, of Goderich, is interested. Work will commence next spring.

The Jackson Mfg. Co. will commence operations soon on a new factory for the manufacture of clothing. The structure will be two stories in height, 35 × 125 ft. with stone foundation and brick superstructure.

NIAGARA FALLS, ONT.—Contracts for the proposed factory for C. S. Peaslee & Son, of this city, have been awarded as follows: T. E. FERRIS, stone foundation, and W. S. HOMAN, superstructure. Work will be proceeded with at once.

TORONTO, ONT.—Frank H. Fleer & Co., Ltd., 40 Lombard St., Toronto, have been granted a permit for the erection of a 2-story factory of reinforced concrete to be erected on Sterling Road. Cost, $65,000.

It is stated that the Minster, Myles Shoe Co., Ltd., 67 Adelaide St., West, will erect a factory here to cost about $30,000.

VICTORIA, B. C.—Additions will be erected to the car shops of the British Columbia Electric Ry. Co., in Victoria, B. C., at a cost of about $10,000. R. H. Sperling, Vancouver, is Gen. Mgr.; A. T. Goward is Local Mgr.

VANCOUVER, B. C.—C. Jenkins, of Morrisburg, Ont., is arranging the preliminaries for the erection of a tin plate factory here to cost $100,000.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—rrigation.

DITCH.—Aitkin, Minn.—Bids are asked until Jan. 7 by Fred Stearns, County Audr., for constructing Ditch No. 4.

DRAIN.—Estherville, Iowa.—Bids are asked by R. J. Ridley, County Audr., until Jan. 16, for constructing county drain No. 24.

DITCH.—Ada, Minn.—Bids are asked by D. E. Fulton, County Auditor, until Dec. 20 for constructing ditch No. 33. Probable cost, $12,000.

TILE DITCH.—Anderson, Ind.—Bids are asked until Dec. 28 by Edwin J. Wilcox, Supt. Constr., for constructing the *Chas. Baxter tile ditch.

*DREDGING.—Washington, D. C.—Bids are asked by Maj. Spencer Cosby, Corps Engrs., U. S. A., Washington, until noon, Jan. 11, for dredging in Rappahannock River, Va.

TELEPHONE.—Tisdale, Sask.—The Tisdale Telephone Co., Tisdale, Sask., has been organized to build a line from that town to New Osgoode, a distance of 18 miles.

DRAIN.—Fort Wayne, Ind.—Bids are asked by David Sprindler, Supt. of Drains, until 2 p. m., Dec. 28, for the construction of a large ditch in Perry Township.

DREDGING.—Detroit, Mich. — Bids are asked until 3 p. m., Jan. 16, by Col. Chas. E. L. B. Davis, Corps Engrs., U. S. A., for dredging Saginaw River, Mich.

SWIMMING POOL.—Denver, Colo.—Bids are asked until 11 a. m., Jan. 9, by C. A. H. McCauley, Ch. Q. M., for constructing a swimming pool at Fort Huachuca, Ariz.

IRON FENCE.—Lawrence, Ind.—Bids are asked by Geo. H. Penrose, Q. M., U. S. A., until 2 p. m., Dec. 21, for constructing iron fence for corral at Fort Benjamin Harrison, Ind.

CANAL.—Ottawa, Ont.—Bids are asked by L. K. Jones, Secy., Dept. Rys. and Canals, Ottawa, until Feb. 1, for construction of Section 2, Ontario-Rice Lake Division of the Trent Canal.

CANAL.—Ottawa, Ont.—The Department of Railways and Canals has awarded contract for Sect. 1 of the Ontario-Rice Lake division of the Trent Canal to LEWIS P. NOTT, of Montreal, Que.

TELEPHONE LINE.—La Crosse, Wis.—A Telephone company will build a line from Madison, Wis., to La Crosse during the early spring or summer. G. D. Critchfield, of La Crosse, is Pres. of the company. Cost, $70,000.

DRAINS.—Jefferson, Iowa.—Bids are asked until Dec. 27 by E. S. Gose, County Audr., Jefferson, for furnishing material and constructing county drains No. 33 and 10. C. P. Walker is Chn. Bd. Superv.

BULKHEAD.—Montgomery, Ala.—Bids are asked until Dec. 21, by Capt. H. B. Ferguson, Corps Engrs., U. S. A., Montgomery, for constructing timber bulkhead, 8,000 ft. long, at mouth of Apalachicola River, Fla.

DRY DOCK.—Brooklyn, N. Y.—Specifications for completing the dry dock at the Brooklyn Navy Yard, are on file at office of Engineering News, New York. Bids are asked until 1 p. m., Jan. 18. Inventory of plant, machinery, tools, and appliances of Geo. B. Spearin in possession of the U. S. at navy yard and of material on hand is on file at office of Engineering News. Noted fully last week.

DREDGING.—Boston, Mass.—One bid was received as follows for dredging at the navy yard, Boston, Mass., by the Bureau of Yards and Docks, Navy Dept., Washington: Eastern Dredging Co., 247 Atlantic Ave., Boston, $3,680.

*LOCKS AND DAMS, ETC.—Mobile, Ala.—Contract for building locks and dams Nos. 14 and 15, Black Warrior River, etc., has been awarded to the DRAVO CONTRACTING CO., Lewis Block, Pittsburg, Pa. Noted fully last week.

DITCH.—Canton, N. Y.—Bids were received by the Indian Creek Drainage Comrs. on Dec. 6 for deepening the Van Rensselaer ditch at and near village of Rensselaer Falls, in the town of Canton. H. M. Townsley, Engr. Bids were rejected.

TILE.—Annapolis, Md.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until 10 a. m., Dec. 26, to furnish at the Naval Academy, Annapolis, a quantity of tile, Schedule 604. E. B. Rogers, Paymaster-Gen., U. S. N., Washington.

*SALE OF BUILDINGS.—New York, N. Y.—Bids are asked by Wm. W. Bessell, First Lieut., Signal Corps, U. S. A., until 1.30 p. m., Jan. 13, for purchase and removal of four buildings, viz., double lieutenants quarters; barracks, stable and recreation hall at Fort Wood, Bedloes Island, N. Y. Harbor.

CONDUIT SYSTEM.—Little Rock, Ark.—Plans are being made by the Southwestern Telephone & Telegraph Co. for an expenditure of $1,500,000, of which $500,000 will be used in improving and extending the Little Rock service. The underground conduit system is to be greatly extended. P. K. Baker is Supt.

WIRE FENCE. — Winnipeg, Man.—Work will be commenced soon on the erection of 2,000 miles of wire fence between Winnipeg and Edmonton, Alta., along both sides of the right-of-way of the Grand Trunk Pacific Railway. The CANADIAN STEEL & WIRE CO., Hamilton, Ont., has been awarded the contract.

LOADING SCOWS.—New York, N. Y.—Bids are asked by Foster Crowell, Comr. St. Cleaning, until noon, Dec. 27, for contract for furnishing all the labor and materials required for loading and trimming deck scows and other vessels of the department, and for the privilege of sorting and picking over and appropriating certain of the refuse at the dumps.

*STEAMBOAT LANDING.—Erie, Pa.—Bids are asked until 3 p. m., Feb. 4, by Clark Olds, Pres. Erie Dock Comn., Chamber of Commerce rooms, Erie, for the construction and completion of a public steamboat landing at the Port of Erie, about 548 ft. long and 100 ft. wide; and will include all dredging, timber, cribs filled with rock, filling between cribs, concrete walls and brick pavement.

*DRAINAGE DITCHES.—Greenwood, Miss.—Bids are asked until noon, Dec. 31, for the construction of the main drains of (A) the Ellsberry Drainage District and (B) the Jones-Walton Drainage District, Le Flore County, Miss. The work to be done on contract (A) is clearing the right-of-way and digging about eleven miles of ditches requiring the removal of about 178,000 cu. yds. of dirt as estimated by the engineer. Contract (B), about six miles of ditches requiring the removal of 66,000 cu. yds. of dirt. G. W. Holmes, Pres. Drainage Comn.

COPPER.—Washington, D. C.—Bids were received, as follows, Dec. 11, at the office of Elliott Wood, Superintendent of the U. S. Capitol Buildings and Grounds, Washington, for copper roofing: C. G. Hussey Co., Pittsburg, 15.9 cts. per lb.; Clendenin Bros., Baltimore, 17.05 cts.; U. T. Hungerford Brass & Copper Co., N. Y., 17.1 cts.; Lewis H. Jones, Detroit, 17.5 cts.; Rome Brass & Copper Co., Rome, N. Y., 16.05 cts.; Crucible Steel Co. of America, Pittsburg, 17.75 cts.; Taunton New Bedford Copper Co., New Bedford, Mass., 17.5 cts.; Merchant & Evans, Philadelphia, 17.2 cts.

ORDNANCE.—Washington, D. C.—The Bureau of Ordnance, Navy Dept., Washington, has awarded contracts as follows for furnishing shells. FIRTH-STERLING STEEL CO., Giesboro Point, D. C., 3,000 12-in. at $220 each; 2,500 8-in. at $70 each; 3,000 7-in. at $50 each; 24,000 6-in. at $26.50 each. CRUCIBLE STEEL CO. OF AMERICA, Pittsburg, 1,500 12-in. at $230 each and 300 13-in. at $300 each. BETHLEHEM STEEL CO., South Bethlehem, Pa., 40,000 5-in. at $20 each.

DITCH.—Emmetsburg, Iowa.—Bids were received on Dec. 11 by the Board of Supervisors, at the office of Sim R. Stedman, County Auditor, Emmetsburg, for constructing work in drainage districts Nos. 6, 12, 16, 18, 19 and 28, for which G. D. McNab is the engineer, and also for work in Drainage Districts Nos. 15, 23 and 25, of which Guy R. Campbell is the engineer. The work includes excavating and tile work. Contract for No. 12 was let to DANIEL McNABB, Britt, Iowa, at $14,999; No. 25 was let to FRED W. UMBREIT, Graettinger, Iowa, at $7,375.

U. S. POSSESSIONS AND CUBA.

(denotes that this work is advertised in Engineering News.)*

WIRE CLOTH.—Panama.—The Isthmian Canal Commission, Washington, D. C., has awarded to the NEW FREEDOM WIRE CLOTH CO., New Freedom, Pa., contract for furnishing 110,000 yds. of wire cloth, at $41,553.

ENGINEERING SUPPLIES.—Panama.—The Isthmian Canal Commission, Washington, D. C., has made the following awards for engineering supplies: Steel plates, checker iron plates, and angles, divided between J. B. KENDALL, Washington, D. C., U. S. STEEL PRODUCTS EXPORTS CO., 24 State St., New York, and R. C. HOFFMAN & CO., Baltimore, at $6,461, $7,270 and $6,783, respectively; 30,000 sheets corrugated iron-roofing and 10,000 lin. ft. ridging, to YOUNGSTOWN SHEET BRASS & COPPER CO., Youngstown, Ohio, at $24,995. About 6,500,000 ft. b. m., of lumber various sizes, divided between OLSON, MAHONEY LUMBER CO., San Francisco, at $101,138, and D. L. GILLESPIE, Pittsburg, at $21,439.

LUMBER.—Panama.—Bids were received as follows Dec. 13, at the office of the Isthmian Canal Commission, Washington, D. C., for about 6,300,000 ft. B. M., of lumber, of various sizes: A. S. Bacon & Sons, Savannah, Ga., $150,636; 190 days. Bellingham Bay Lumber Co., San Francisco, Cal., $131,452; 160 days. Dixon Lumber Co., Savannah, Ga. (part), $123,475; 310 days. G. Elias & Bro., Buffalo, $176,532; 180 days. Foster Lumber Co., Tacoma, Wash., $156,975; 180 days. Wiliam D. Gill & Son, 701 President St., Baltimore, $137,052; 120 days. Hicks & Hauptman Lumber Co., 25 California St., San Francisco, $138,334; 175 days. Long Bell Lumber Co., Kansas City, Mo., $155,326; 150 days. Lutcher & Moore Lumber Co., Orange, Tex., $159,994; 180 days. S. E. Naylor & Co., Gulfport, Miss., $141,992; 165 days. Olson, Mahony Lumber Co., San Francisco, $124,373; 180 days. Pacific Export Lumber Co., Portland, Ore., $132,825; 120 days. W. B. Patterson Lumber Co., Mobile, Ala., $169,140; 200 days. Augustus J. Russell, Alpha Bldg., San Francisco, $134,906; 180 days. Salmen Brick & Lumber Co., 716 Common St., New Orleans, $174,338; 180 days. Robt. R. Sizer & Co., Jacksonville, $157,153; 150 days. D. L. Gillespie & Co., 541 Wood St., Pittsburg, $134,565; $129,165 if awarded whole order; 120 days. W. W. Herron Lumber Co., Mobile, Ala., $162,382; $159,285 if awarded entire order; 120 days. Benj. F. Edwards, Washington, $174,737; 150 days. J. K. Joyce, 164 Dearborn St., Chicago, $152,146; $149,127; 140 days. Chicago Lumber & Coal Co., St. Louis, Mo., $157,278; $150,034 if awarded entire order; 128 days.

CONTRACT PRICES.

PHOENIX, ARIZ.—Bids were received on Dec. 2 by the Commissioner of Indian Affairs, Washington, D. C., for constructing and completing an addition to the water system at the Phoenix School, Phoenix, Ariz. R. A. Craig is Supt. Water Dept. The bids in detail were as follows: For all materials and labor, complete: (A) T. C. Brooks & Sons, Jackson, Mich.; (B) F. C. Mortimer, Chicago:

	(A) per ft.	(B) per ft.
Pipe:		
4"	$0.77	$0.79
6"	.99	1.01
8"	1.34	1.38
10"	1.75	1.77
12"	2.19	2.29
16"	3.30	3.30
	Each.	Each.
Hydrants:		
4"	$37.00	$43.00
6"	64.00	70.00
Valves:		
4"	14.00	16.00
6"	21.00	24.00
8"	29.00	31.00
10"	40.00	43.00
12"	50.00	53.00
16"	90.00	106.00

Pipe—

American C. I. P. Co., Birmingham, 4", 6", 8", 10", 12" pipe, $38.40 per ton f. o. b. Phoenix; 16" pipe, $38 per ton f. o. b. Phoenix; specials, $65 per ton.

Colorado F. & I. Co., Denver, 4", 6", 8" pipe, $39.50; 10" pipe, $38.50; 12", 16" pipe, $37.50; specials, $67.50 per ton.

U. S. C. I. P. & F. Co., Birmingham, 4", 6", 8" pipe, $39.90 per ton f. o. b. Phoenix; 10", 12", 16" pipe, $39.40 per ton f. o. b. Phoenix; specials, $65 per ton.

A. M. Ozburn, Chicago, all sizes pipe, $41.25 per ton f. o. b. Phoenix; specials, $68 per ton.

Dimmick Pipe Co., Birmingham, all sizes pipe, $39.45 per ton f. o. b. Phoenix; specials, $64 per ton.

R. D. Wood Co., Chicago, 4", 57 cts.; 6", 95 cts.; 8", $1.38; 10", $1.83; 12" $2.26; 16", $3.43 per lin. ft.; specials, $80 per ton.

Hydrants and valves, f. o. b. Phoenix—

R. D. Wood Co., Chicago, 4", $13.75; 6", $19.25; 8", $27.75; 10", $39.25; 12", $46.25; 16", $94.25 each; 4" Matthews hydrants, $31; 6", $46.60.

Merkle Mach'y Co., Kansas City, 4" $12.25; 6", $17; 8", $24; 10", $34; 12", $45.50; 16", $84 each.

Ludlow Valve Mfg. Co., Troy, 4", $13; 6", $19.80; 8", $26.95; 10", $37.85; 12", $46.60; 16", $82.40 each; 4" Ludlow hydrants, $33.25; 6", $58.75.

J. B. Clow & Sons, Chicago, 4", $14.40; 6", $20.50; 8", $29.50; 10", $40.50; 12", $53.50; 16", $83 each; 4" Eddy hydrants, $33; 6", $60.

For laying pipe and setting valves and hydrants—

Chick & White, Berkeley, Cal., pipe, per ft., 4", 38 cts.; 6", 39 cts.; 8", 48 cts.; 10", 55 cts.; 12", 61 cts.; 16", 94 cts. Valves, each, 4", $3; 6", $4; 8", $4; 10", $5; 12", $6; 16", $10. Hydrants, each, 4", $2.50; 6", $4. Amount of bid, $49,618.

J. B. Girand, Prescott, Ariz. pipe, per ft., 4" 39½ cts.; 6", 44 cts.; 8", 52 cts.; 10", 57 cts.; 12" 62 cts.; 16", 98 cts. Valves, each, 4", $1; 6", $1.50; 8", $2; 10", $2; 12", $2.50; 16", $2.50. Hydrants, each, 4", $1.50; 6", $1.75. Amount of bid, $53,305.

Awards were made as follows. Pipe, AMERICAN CAST IRON PIPE CO., of Birmingham; valves, LUDLOW VALVE MFG. CO., of Troy, N. Y.; hydrants, R. D. WOOD CO. (Matthews hydrants), Chicago, Ill. All bids for labor and installation were rejected. New bids for this part of the work are asked until Jan. 10, as advertised in Engineering News. Total bids are given in this week's issue under Water Supply—Irrigation.

CIVIL SERVICE EXAMINATIONS.

STEAM ENGINEER.—Omaha, Neb.—The U. S. Civil Service Commission announces an examination on Jan. 8 to secure eligibles from which to make certification to fill a vacancy in the position of first-class steam engineer, at $1,200 a year, in the Custodian Service, at Omaha, Neb., and vacancies requiring similar qualifications as they may occur elsewhere in that service, at salaries ranging from $1,200 to $1,600 a year. Age limit, 18 to 55 years. Application Form 1052.

ELECTRICIAN.—St. Louis, Mo.—An examination will be held on Jan. 8 by the U. S. Civil Service Commission to fill a vacancy in the position of lampist and electrician, $1,000 a year, in the Custom-House building, St. Louis, Mo., and vacancies requiring similar qualifications as they may occur in the Custodian Service throughout the United States. Age limit, 18 to 55 years. (All honorably discharged United States soldiers and sailors of the war of the rebellion will be admitted to this examination without regard to the maximum age limit.) Application Form 1052.

CIVIL ENGINEERING DRAFTSMAN.—Albany, N. Y.—The following persons passed the recent examination held by the State Civil Service Commission for the position of civil engineering draftsman in the State service, at salary of $4 to $5 per day:

Charles H. Andrus, 127 Second St., Troy, N. Y.	90.65
Martin A. Finch, 16 Bleecker Pl., Albany, N. Y.	87.00
Leo B. Westfall, Box 205, Altamont, N. Y.	83.85
James B. Egbert, Hope Ave., Rosebank, Staten Island, N. Y.	81.6
Mark D. Ewell, 665 Madison St., Syracuse, N. Y.	81.15
William Findlay, 371 Convent Ave., New York	77.35
Forrest H. Rawson, 43 Park St., Glens Falls, N. Y.	76.45
Charles J. Alber, Spring and Linden Aves., Troy, N. Y.	76.35
William H. Dernell, 1381 Broadway, Brooklyn, N. Y.	75.6
William A. Treadwell, 187 Elk St., Albany, N. Y.	75.25
Henry D. Darrow, Jr., 65 Albany St., Kingston, N. Y.	75.2
Daniel W. Overcrocker, 311 Main St., Poughkeepsie, N. Y.	75.15
Jay L. Southworth, 3 Leonard Pl., Albany, N. Y.	75.05
Harry R. Wickham, 1 Delaware Terrace, Albany, N. Y.	75.00
Ford W. Harris, 9 Lancaster St., Albany, N. Y.	77.75
Allen T. Paine, 107 Halsey St., Newark, N. J.	75.35

ASSISTANT CIVIL ENGINEER.—Albany, N. Y.—As a result of the examination held by the New York State Civil Service Commission on Nov. 30 for the position of assistant civil engineer, Public Service Commission, salary $1,500 to $1,800 per year, 22 persons passed. The first 15 on the list are:

Clifford M. Holland, 215 West 23d St., New York	87.14
Ernst P. Neuschwander, 106 Morris St., Yonkers, N. Y.	86.87
Kenneth B. Emerson, New Paltz, N. Y.	84.22
Harold W. Benedict, 685 4th Ave., Troy, N. Y.	83.14
Thomas F. Nichols, Clinton, Oneida County, N. Y.	81.8
Albert Geortz, 343 East 58th St., New York	80.97
Charles D. Thomas, 547 Carlton Ave., Brooklyn, N. Y.	80.54
Donald W. Howes, New Paltz, N. Y.	80.29
Achille O. Van Suentendael, 767 Warburton Ave., Yonkers, N. Y.	79.85
William M. Hoover, 879 Highland Ave., Philadelphia, Pa.	79.84
William L. Savacool, 105 Flushing Ave., Jamaica, N. Y.	79.67
Isaac S. Matlaw, Barge Canal Office, Waterford, N. Y.	78.79
Leland W. Irish, 1210 Maple Ave., Peekskill, N. Y.	78.57
George E. Malone, 40 Gramercy Park, New York	78.50
Tobias Hochlerner, 149 Lenox Ave., New York	78.34

For other Proposal Advertisements see pages 51, 52, 53, 54, 55 of Advertisements and Construction News page 196.

STEAMBOAT LANDING.

Office of the Erie Dock Commission.
Created by Act of June 13, 1907. P. L. 632.
Erie, Pa., July 14, 1907.

Sealed proposals, addressed to Clark Olds, President of the Erie Dock Commission, Erie, Pa., and endorsed "Proposal for State Street Extension," will be received at the office of the Commission (Chamber of Commerce rooms) until three o'clock p. m. of February 4, 1908, and then publicly opened.

The work will consist in furnishing all labor and material for the construction and completion of a public steamboat landing at the Port of Erie, about 548 feet long and 100 feet wide; and will include all dredging, timber, cribs filled with rock, filling between cribs, concrete walls and brick pavement.

Each proposal must be made on a printed form, which, together with information for bidders, form of contract and specifications, will be furnished on application.

Each bidder must send with his proposal a certified check or a certificate of deposit of some National Bank, made payable to the Commission, for the sum of Four Thousand ($4,000.00) Dollars.

The Commission reserves the right to reject any or all proposals.

M. H. TAYLOR,
HON. FRANK D. SCHULTZ,
HENRY BECKMAN,
E. C. SIEGEL,
CLARK OLDS,
Commissioners.
H. T. LEASURE, Secretary. 25-3t

U. S. ENGINEER OFFICE, 22d and K Sts., N. W., Washington, D. C., Dec. 12, 1907.—Sealed proposals for dredging in Rappahannock River, Va., will be received here until 12 M., Jan. 11, 1908, and then publicly opened. Information furnished on application. SPENCER COSBY, Major, Engrs. 25-4t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., December 16, 1907.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 20th day of January, 1908, and then opened, for the construction (complete) of the extension to the U. S. Post Office and Court-House, Asheville, North Carolina, in accordance with the drawings and specification, copies of which may be had at this office, or at the office of the Custodian of the building at Asheville, North Carolina, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 25-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., December 16, 1907.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 21st day of January, 1908, and then opened, for the construction (complete) of the U. S. Post Office, at Gainesville, Georgia, in accordance with the drawings and specification, copies of which may be had at this office, or at the office of the Postmaster at Gainesville, Georgia, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 25-2t

Situations Wanted

CONTRACTING ENGINEER and salesman, open for engagement from Jan. 1st, to represent firm engaged in structural steel, building, or general construction; ten years' experience; location, New York. Address "X. B. 25," Engineering News, New York. 25-1t

EXPERIENCED MANAGER desires position with bridge or structural steel plant; graduated engineer; long experience in shop management, estimating and superintendence. Address "A. B. 25," Engineering News, New York. 25-3t

ARCHITECT AND ENGINEER, technical graduate, 27, open for engagement about Jan. 20; experienced in the design, drafting and construction of power houses, water-works, railroad, mill and all other classes of buildings; locality of slight moment; four years with Westinghouse, Church, Kerr & Co., Engineers, N. Y. City. Address "C. B. 25," Engineering News, New York. 25-3t

WANTED—Position as contracting engineer for bridge or structural steel plant; 20 years' experience; open for engagement after Jan. 1st. Address "B. B. 25," Engineering News, New York. 25-3t

Miscellaneous Wants

THE ADVERTISER, interested from an engineering standpoint, desires to communicate with parties who could finance an electric road for freight and passengers between a county seat and railroad point. Address "W. A., 25," Engineering News, New York. 25-4t

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BOOKS ON ANY SUBJECT
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